

63.84
AFRICA
1929-1930

LIBRARY
RECEIVED
★ MAY 20 1930 ★
U. S. Department of Agriculture.

TRADE

MARK



**GROOT DRAKENSTEIN
NURSERIES
1930
(ILLUSTRATED)
CATALOGUE
& PRICE LIST**

OF FRUIT TREES
GROWN BY
H·E·V·PICKSTONE & BROTHER, LTD
P. O. SIMONDIUM, C. P.

**BRANCH
NURSERIES**



**AT ELGIN
AND GEORGE.**

**Should you not need this Catalogue this year
kindly hand it to a friend or neighbour.**

If you prefer this Catalogue in Afrikaans please
let us know, when a copy will at once be sent
to you.

As u verkies om hierdie Katalogus in Afrikaans
te hê, laat ons asseblief weet, dan sal 'n eksem-
plaar aan u gestuur word.

LIMITED,

P.O. SIMONDIUM, CAPE OF GOOD HOPE.

Order Sheet for Fruit Trees, Season 193.....

PLEASE WRITE PLAINLY.

Dear Sirs,

I hereby agree to take the following list of Trees for next Planting Season

Full Name _____

Full Postal Address _____

*Railway Station*_____ *Forwarding Agent (if any)*_____

Here state how Trees are to be forwarded. i.e., by rail or post

Approximate date of despatch

(Trees will be forwarded within 5 days before or 5 days after this date.)

Answer these questions:

(1) Should we be sold out of first size, may we substitute second, and vice versa?

(2) Should we be sold out of any varieties ordered, may we substitute varieties as nearly as possible?

DECIDUOUS TREES.

Size 1.	Size 2.	Varieties.	Size 1.	Size 2.	Varieties.	Size 1.	Size 2.	Varieties.
APPLES ON BLIGHTPROOF STOCKS.			PEACHES.			JAPANESE PLUMS.		
.....	Ballarat Seedling.	.....	.....	Angel.	.....	.....	Abundance.
.....	Ben Davis.	.....	.....	Belle Baucé.	.....	.....	Apex.
.....	Blenheim Orange Pippin.	.....	.....	Briggs Red May	.....	.....	Apple.
.....	Cellini.	.....	.....	Brook.	.....	.....	Beauty.
.....	Christmas.	.....	.....	Constantia.	.....	.....	Burbank.
.....	Cleopatra.	.....	.....	Crimson Galande.	.....	.....	Chalcot.
.....	Cliff's Seedling.	.....	.....	Dagmar.	.....	.....	Formosa.
.....	Commerce.	.....	.....	Dr. Hogg.	.....	.....	Gaviota.
.....	Delicious.	.....	.....	Duchess of Cornwall.	.....	.....	Kelsey.
.....	Early Harvest.	.....	.....	Duke of York.	.....	.....	Methley.
.....	Emperor Alexander.	.....	.....	Early Alexander	.....	.....	October Purple
.....	Esopus Spitzenberg.	.....	.....	Early Crawford.	.....	.....	Santa Rosa.
.....	Gravenstein.	.....	.....	Early Rivers.	.....	.....	Satsuma.
.....	Jonathan.	.....	.....	Elberta.	.....	.....	Shiro Smomo
.....	King of Tomkins County.	.....	.....	Florida Crawford	.....	.....	Sultan.
.....	London Pippin.	.....	.....	Foster.	.....	.....	Wickson.
.....	Lord Wolseley.	.....	.....	George's Late Cling	.....	.....
.....	Missouri Pippin.	.....	.....	Gladstone.	.....	.....
.....	Monmouth Pippin	.....	.....	Goodman's Choice.	.....	.....
.....	Nickajack.	.....	.....	High's Early Canada	.....	.....
.....	Northern Spy	.....	.....	Improved Waldo.	.....	.....
.....	Obinemuri.	.....	.....	Inkoos.	.....	.....	PRUNES.
.....	Prince Bismarck.	.....	.....	Killiekrankie.	.....	.....	California d' Agen.
.....	Prynnsberg Beauty.	.....	.....	Late Crawford.	.....	.....	Fellenberg.
.....	Red Astrachan.	.....	.....	Lemon Cling.	.....	.....	Sugar.
.....	Reinette du Canada.	.....	.....	Le Vainqueur	.....	.....
.....	Rhode Island Greening.	.....	.....	Mamie Ross	.....	.....	CHERRIES.
.....	Rokewood.	.....	.....	Mary's Choice.	.....	.....	Bing.
.....	Rome Beauty.	.....	.....	Mayflower.	.....	.....	Black Biggareau.
.....	Sharp's Early.	.....	.....	Mountain Rose	.....	.....	Black Tartarian
.....	Versfeld's.	.....	.....	Muir.	.....	.....	Early Rivers.
.....	Wemmer's Hoek.	.....	.....	Nectarine.	.....	.....	Elton.
.....	White Winter Pearmain.	.....	.....	Newhall.	.....	.....	Emperor Francis.
.....	William Anderson.	.....	.....	Oklahoma Queen.	.....	.....	Giant Heidelfinger.
.....	William's Favourite.	.....	.....	Pallas.	.....	.....	Governor Wood.
.....	Wine Sap.	.....	.....	Peento.	.....	.....	Kentish.
.....	Yates (York Imperial.)	.....	.....	Peregrine.	.....	.....	Monstreuse de Mezel.
.....	Yellow Newton Pippin	.....	.....	Pucelle de Malines	.....	.....	Morello.
APPLES ON CAPE SEEDLING STOCKS.			.....	.....	Pullar's Cling	.....	.....	Napoleon Biggareau.
.....	Christmas.	.....	.....	Rimer.	.....	.....
.....	Cleopatra.	.....	.....	Salway.	.....	.....	ALMONDS.
.....	Cox Orange Pippin.	.....	.....	Schoongezicht.	.....	.....	Brand's Jordan.
.....	Delicious.	.....	.....	Sea Eagle.	.....	.....	Britz.
.....	Jonathan.	.....	.....	Seller's Golden Cling	.....	.....	Drake's Seedling.
.....	Ohinemuri.	.....	.....	Shackleford.	.....	.....	I. X. L.
.....	Rokewood.	.....	.....	Thomas Rivers.	.....	.....	Jordan.
.....	Rome Beauty.	.....	.....	Tuscan Cling.	.....	.....	Ne Plus Ultra.
.....	Sharp's Early.	.....	.....	Van Rensburg.	.....	.....	Nonpareil.
.....	Versfeld's.	.....	.....	Waldo.	.....	.....	Paper Shell.
.....	Wemmer's Hoek.	.....	.....	Waterloo.	.....	.....	Texas Prolific.
.....	White Winter Pearmain.	.....	.....	White Parvie.	.....	.....
.....	Yates (York Imperial.)	.....	.....		.....	.....
PEARS.			NECTARINES.			QUINCES.		
.....	Bon Chrétien (Williams).	.....	.....	Albert.	.....	.....	Borrie.
.....	Beurre Bosc.	.....	.....	De Cousa.	.....	.....	Cape Selected.
.....	Beurre Clairgeau.	.....	.....	Early Rivers.	.....	.....	Meeches Prolific
.....	Beurre Diel.	.....	.....	Goldmine.	.....	.....	Orange.
.....	Beurre Hardy.	.....	.....	Newton.	.....	.....	Portugal.
.....	Beurre Superfine.	.....	.....	Stanwick.	.....	.....	Rae's Mammoth.
.....	Clapp's Favourite.	.....	.....	Victoria.	.....	.....	Van Dieman.
.....	December.	.....	.....		.....	.....
.....	Doyenne du Comice.	.....	.....	APRICOTS.	.....	.....	FIGS.
.....	Duchesse d'Angoulême.	.....	.....	Blenheim.	.....	.....	Adam.
.....	Easter Beurre.	.....	.....	Early Cape.	.....	.....	Cal Smyrna.
.....	Fertility.	.....	.....	Moorpark.	.....	.....	Capri.
.....	Forelle.	.....	.....	Old Cape.	.....	.....	Castle Kennedy.
.....	Gansell's Bergamotte.	.....	.....	Royal.	.....	.....	Eva.
.....	Glou Morceau.	.....	.....	Tilton.	.....	.....	Negro Largo.
.....	Jargonelle.	.....	.....	PLUMS.	.....	.....	New Brunswick.
.....	Josephine de Malines.	.....	.....	Coe's Golden Drop.	.....	.....	Old Cape White.
.....	Keiffer Hybrid.	.....	.....	Czar.	.....	.....	Tiger.
.....	Le Conte.	.....	.....	Damask.	.....	.....	White Adriatic.
.....	Louise Bonne.	.....	.....	Diamond.	.....	.....	White Genoa.
.....	Magnate.	.....	.....	Early Golden Drop.	.....	.....
.....	Sweet Safran.	.....	.....	Greengage.	.....	.....
.....	Tongres.	.....	.....	Hahn's d'Almagne.	.....	.....
.....	Vicar of Winkfield.	.....	.....	Pond's Seedling.	.....	.....	WALNUTS
.....	Winter Nelis.	.....	.....	Pride of England.	.....	.....	English
.....	Winter Safran.	.....	.....	Reid's Late Gem.	.....	.....
			Rivers' Early Prolific.	.....	.....	MULBERRIES
			Rivers' Late Prolific.	.....	.....	Cape Selected.

VINES.

No.	Varieties.	No.	Varieties.	No.	Varieties.
.....	Barbarossa.	.....	Hermitage.	.....	Rosaki.
.....	Black Prince.	.....	Lady Downes Seedling.	.....	Rose Chasselas.
.....	Crystal.	.....	Raisin Blanc.	.....	Waltham Cross.
.....	Flaming Tokay.	.....	Red Muscadel.	.....	White Hanepoot.
.....	Gros Colman.	.....	Red Hanepoot.	.....	White Muscadel.

CITRUS TREES.

[illegible]

NOTE—No alteration or delays will be accepted within 15 days of the date of despatch.

1917-1918



Н. В. А. БИКОЛОНОВ & БИКОЛОНОВ

БЫСТРОДЕЙСТВУЮЩАЯ СЛУЖБА

103

ПРИКАЗ

103

103

CONDITIONS OF SALE.—Every possible precaution is taken to prevent errors and to ensure that our trees are true to name, but it is impossible to give any guarantee, express, or implied to this effect. It is therefore an express term of every contract for the sale of trees that, in the event of any trees being found untrue to name or label, we will be liable only either to supply fresh trees in the place of those found to be untrue to name or label or to refund the purchase price of the individual trees in question and that no other or further liability for loss or damage direct or indirect, will rest on us. We further stipulate that in cases of orders booked for delivery more than three months ahead we will not recognise any liability in the event of failure to effect delivery on the agreed upon date, if such failure be caused by the trees failing to grow to standard size owing to adverse weather or other conditions or by their delivery being rendered impossible or impracticable for any other reason.



H. E. V. PICKSTONE & BROTHER, Order No.
LIMITED,
P.O. SIMONDIUM, CAPE OF GOOD HOPE.

Order Sheet for Fruit Trees, Season 193.....

PLEASE WRITE PLAINLY.

Dear Sirs,

I hereby agree to take the following list of Trees for next Planting Season

Full Name.....

Full Postal Address.....

Railway Station..... Forwarding Agent (if any).....

Here state how Trees are to be forwarded, i.e., by rail or post.....

Approximate date of despatch.....

(Trees will be forwarded within 5 days before or 5 days after this date.)

Answer these questions:

(1) Should we be sold out of first size, may we substitute second, and vice versa?

(2) Should we be sold out of any varieties ordered, may we substitute varieties as nearly as possible

similar?

DECIDUOUS TREES.

Size 1.	Size 2.	Varieties.	Size 1.	Size 2.	Varieties.	Size 1.	Size 2.	Varieties.
APPLES ON BLIGHTPROOF STOCKS.			PEACHES.			JAPANESE PLUMS.		
.....	Ballarat Seedling.	.....	.....	Angel.	.....	.....	Abundance.
.....	Ben Davis.	.....	.....	Belle Bauce.	.....	.....	Apex.
.....	Blenheim Orange Pippin.	.....	.....	Briggs Red May	.....	.....	Apple.
.....	Cellini.	.....	.....	Brook.	.....	.....	Beauty.
.....	Christmas.	.....	.....	Constantia.	.....	.....	Burbank.
.....	Cleopatra.	.....	.....	Crimson Galande.	.....	.....	Chalcot.
.....	Cliff's Seedling.	.....	.....	Dagmar.	.....	.....	Formosa.
.....	Commerce.	.....	.....	Dr. Hogg.	.....	.....	Gaviota.
.....	Delicious.	.....	.....	Duchess of Cornwall.	.....	.....	Kelsey.
.....	Early Harvest.	.....	.....	Duke of York.	.....	.....	Methley.
.....	Emperor Alexander.	.....	.....	Early Alexander	.....	.....	October Purple
.....	Esopus Spitzenberg.	.....	.....	Early Crawford.	.....	.....	Santa Rosa.
.....	Gravenstein.	.....	.....	Early Rivers.	.....	.....	Satsuma.
.....	Jonathan.	.....	.....	Elberta.	.....	.....	Shiro Smomo.
.....	King of Tomkins County.	.....	.....	Florida Crawford.	.....	.....	Sultan.
.....	London Pippin.	.....	.....	Foster.	.....	.....	Wickson.
.....	Lord Wolseley.	.....	.....	George's Late Cling	.....	.....
.....	Missouri Pippin.	.....	.....	Gladstone.	.....	.....
.....	Monmouth Pippin	.....	.....	Goodman's Choice.	.....	.....
.....	Nickajack.	.....	.....	High's Early Canada	.....	.....
.....	Northern Spy	.....	.....	Improved Waldo.	.....	.....
.....	Obinemuri.	.....	.....	Inkoos.	.....	.....	PRUNES.
.....	Prince Bismarck.	.....	.....	Killiekrankie.	.....	.....	California d'Agen.
.....	Prynnsberg Beauty.	.....	.....	Late Crawford.	.....	.....	Fellenberg.
.....	Red Astrachan.	.....	.....	Lemon Cling.	.....	.....	Sugar.
.....	Reinette du Canada.	.....	.....	Le Vainqueur	.....	.....
.....	Rhode Island Greening.	.....	.....	Mamie Ross	.....	.....	CHERRIES.
.....	Rokewood.	.....	.....	Mary's Choice.	.....	.....	Bing.
.....	Rome Beauty.	.....	.....	Mayflower.	.....	.....	Black Biggareau.
.....	Sharp's Early.	.....	.....	Mountain Rose	.....	.....	Black Tartarian
.....	Versfeld's.	.....	.....	Muir.	.....	.....	Early Rivers.
.....	Wemmer's Hoek.	.....	.....	Nectarine.	.....	.....	Elton.
.....	White Winter Pearmain.	.....	.....	Newhall.	.....	.....	Emperor Francis.
.....	William Anderson.	.....	.....	Oklahoma Queen.	.....	.....	Giant Heidelfinger.
.....	William's Favourite.	.....	.....	Pallas.	.....	.....	Governor Wood.
.....	Wine Sap.	.....	.....	Peento.	.....	.....	Kentish.
.....	Yates (York Imperial.)	.....	.....	Peregrine.	.....	.....	Monstreuse de Mezel
.....	Yellow Newton Pippin.	.....	.....	Pucelle de Malines	.....	.....	Morello.
APPLES ON CAPE SEEDLING STOCKS.			.....	.....	Pullar's Cling	.....	.....	Napoleon Biggareau.
.....	Christmas.	.....	.....	Rimer.	.....	.....
.....	Cleopatra.	.....	.....	Salway.	.....	.....
.....	Cox Orange Pippin.	.....	.....	Schoongezicht.	.....	.....	ALMONDS.
.....	Delicious.	.....	.....	Sea Eagle.	.....	.....	Brand's Jordan.
.....	Jonathan.	.....	.....	Seller's Golden Cling	.....	.....	Britz.
.....	Obinemuri.	.....	.....	Shackleford.	.....	.....	Drake's Seedling.
.....	Rokewood.	.....	.....	Thomas Rivers.	.....	.....	I.X.L.
.....	Rome Beauty.	.....	.....	Tuscan Cling.	.....	.....	Jordan.
.....	Sharp's Early.	.....	.....	Van Rensburg.	.....	.....	Ne Plus Ultra.
.....	Versfeld's.	.....	.....	Waldo.	.....	.....	Nonpareil.
.....	Wemmer's Hoek.	.....	.....	Waterloo.	.....	.....	Paper Shell.
.....	White Winter Pearmain.	.....	.....	White Parvie.	.....	.....	Texas Prolific.
.....	Yates (York Imperial.)	.....	.....		.....	.....
PEARS.			NECTARINES.			.....	.....	QUINCES.
.....	Bon Chrétien (Williams).	.....	.....	Albert.	.....	.....	Borrie.
.....	Beurre Bosc.	.....	.....	De Cousa.	.....	.....	Cape Selected.
.....	Beurre Clairgeau.	.....	.....	Early Rivers.	.....	.....	Meeches Prolific.
.....	Beurre Diel.	.....	.....	Goldmine.	.....	.....	Orange.
.....	Beurre Hardy.	.....	.....	Newton.	.....	.....	Portugal.
.....	Beurre Superfine.	.....	.....	Stanwick.	.....	.....	Rae's Mammoth.
.....	Clapp's Favourite.	.....	.....	Victoria.	.....	.....	Van Dieman.
.....	December.	.....	.....		.....	.....
.....	Doyenne du Comice.	.....	.....	APRICOTS.	.....	.....	FIGS.
.....	Duchesse d'Angoulême.	.....	.....	Blenheim.	.....	.....	Adam.
.....	Easter Beurre.	.....	.....	Early Cape.	.....	.....	Calsmyrna.
.....	Fertility.	.....	.....	Moorepark.	.....	.....	Capri.
.....	Forelle.	.....	.....	Old Cape.	.....	.....	Castle Kennedy.
.....	Gansell's Bergamotte.	.....	.....	Royal.	.....	.....	Eva.
.....	Glou Morceau.	.....	.....	Tilton.	.....	.....	Negro Largo.
.....	Jargonelle.	.....	.....	PLUMS.	.....	.....	New Brunswick.
.....	Josephine de Malines.	.....	.....	Coe's Golden Drop.	.....	.....	Old Cape White.
.....	Keiffer Hybrid.	.....	.....	Czar.	.....	.....	Tiger.
.....	Le Conte.	.....	.....	Damask.	.....	.....	White Adriatic.
.....	Louise Bonne.	.....	.....	Diamond.	.....	.....	White Genoa.
.....	Magnate.	.....	.....	Early Golden Drop.	.....	.....
.....	Sweet Safran.	.....	.....	Greengage.	.....	.....
.....	Tongres.	.....	.....	Hahn's d'Almagne.	.....	.....
.....	Vicar of Winkfield.	.....	.....	Pond's Seedling.	.....	.....	WALNUTS
.....	Winter Nelis.	.....	.....	Pride of England.	.....	.....	English
.....	Winter Safran.	.....	.....	Reid's Late Gem.	.....	.....
			Rivers' Early Prolific.	.....	.....	MULBERRIES
			Rivers' Late Prolific.	.....	.....	Cape Selected.

VINES.

No.	Varieties.	No.	Varieties.	No.	Varieties.
.....	Barbarossa.	.....	Hermitage.	.....	Rosaki.
.....	Black Prince.	.....	Lady Downes Seedling.	.....	Rose Chasselas.
.....	Crystal.	.....	Raisin Blanc.	.....	Waltham Cross.
.....	Flaming Tokay.	.....	Red Muscadel.	.....	White Hanepoot.
.....	Gros Colman.	.....	Red Hanepoot.	.....	White Muscadel.

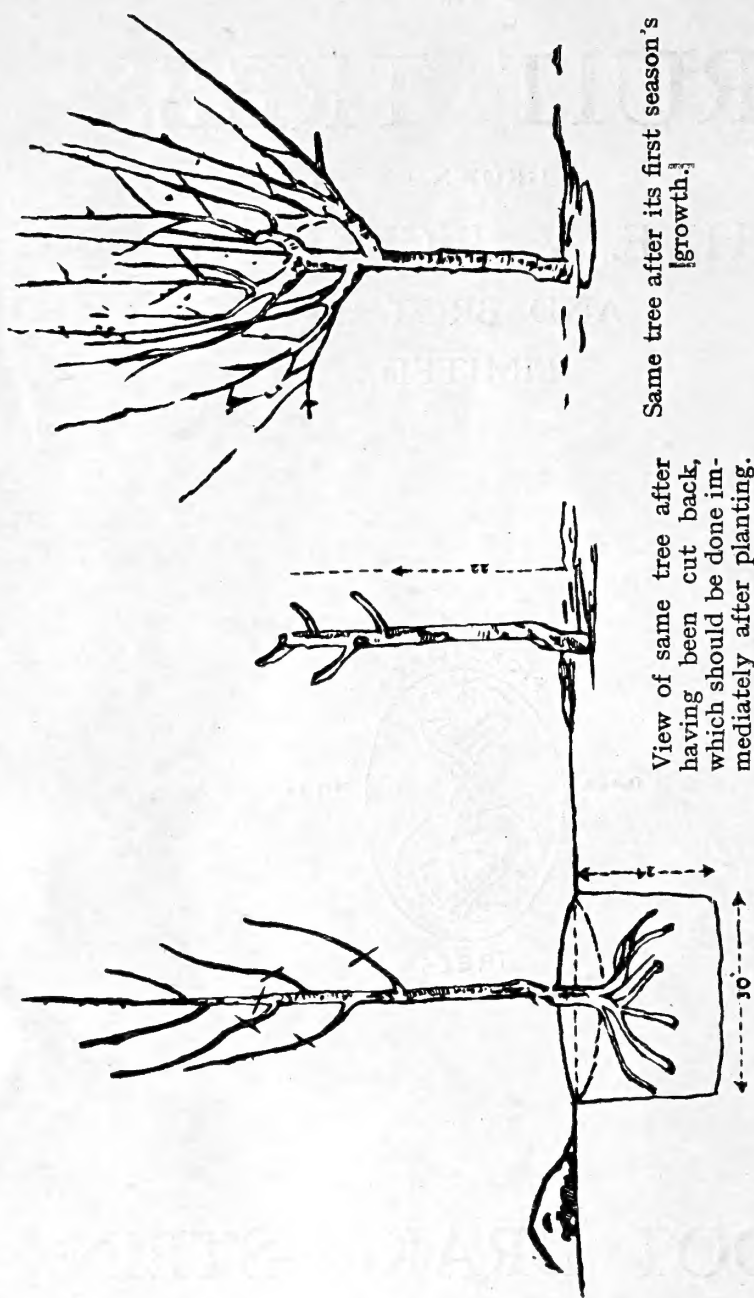
CITRUS TREES.

Size 1.	Size 2.	Size 3.	Varieties.	Size 1.	Size 2.	Size 3.	Varieties.	Size 1.	Size 2.	Size 3.	Varieties.
.....	ORANGES.	.....	.....	.....	LEMONS.	.....	.....	.....	GRAPE FRUIT.
.....	Bitter Seville.	.....	.....	.....	Eureka.	.....	.....	.....	Marsh's Seedless.
.....	Clanwilliam Seedling.	.....	.....	.....	Genoa.	.....	.....	.....	Triumph.
.....	Jaffa.	.....	.....	.....	Villa Franca.	.....	.....	.....
.....	Mediterranean Sweet.	.....	.....	.....		.....	.....	.....	LIMEs.
.....	Navelencia.	.....	.....	.....		.....	.....	.....	Tahiti
.....	Paper Rind St. Michael.	.....	.....	.....	NARTJES.	.....	.....	.....
.....	Ruby Blood.	.....	.....	.....	Cape Nartje.	.....	.....	.....	CITRONS.
.....	Thompson's Imp'd Navel.	.....	.....	.....	Oonshu.	.....	.....	.....	Citron of Commerce.
.....	Valencia Late.	.....	.....	.....		.....	.....	.....
.....	Washington Navel.	.....	.....	.....		.....	.....	.....
.....	(Pickstone's).	.....	.....	.....		.....	.....	.....

NOTE—No alteration or delays will be accepted within 15 days of the date of despatch.



100



SECTION OF GROUND after planting.

The dotted line above the roots represents the basin to be left after planting, and which is to be filled with water, which, when the water has soaked away, is filled with the remaining ground shown on the left; if the planting is followed by a good rain it will be unnecessary to apply water.

PLAN

showing Size of Hole, Method of Trimming the Roots, Planting, Watering and Pruning all Yearling Fruit Trees.—The same applies to the planting of two-year-old trees, excepting that the Pruning is not quite so close.

CONTENTS.

	Page
To Our Customers ..	6
Introduction	7
Stocks	8
Apple Trees on Common	
Seedling Roots	8
" Hints on Fruit Growing "	9
A Question to Fruit Growers	9
Instructions to Correspondents	10
To Clients in Kenya Colony, etc., etc.	12
Trees sent by Parcels Post	12
To Clients in Rhodesia ..	13
Cancellation of Orders ..	13
Price List for 1930 Season	14-15
Free Delivery	16
Guarantee of Health and Genuineness, and Conditions of Sale	16
Orchards can be planted when land is dry ..	16
Deep Planting of Trees ..	17
Summer Planting of Fruit Trees	17
Cold Storage of Trees ..	17
Deciduous Trees	19
How to Handle Deciduous Trees after arrival	19
Descriptive List of Deciduous Fruit Trees :	
Apples	21
Pears	26
Peaches, Freestone	31
" Clingstone	37
" Chinese ..	38
Nectarines	38
Apricots	38
Domestic Plums ..	39
Japanese and Oriental Plums	40

	Page
Prunes	42
Cherries	42
Almonds	43
Mulberries and	
Walnuts	44
Quinces	45
Figs	45
Transplanting Fig Trees ..	46
Vines	47
List of Varieties	47
Citrus Trees	48
Packing	50
Treatment on Arrival ..	50
Time to plant	50
Planting Out and Simple	
Directions for Planting	51
Deep Planting	53
Responsibility for Loss after Trees are Railed	53
Cancellation of Orders for Citrus Trees ..	53
Varieties :	
Oranges	54
Grape Fruit	56
Lemons	57
Limes	57
Nartjes	58
Citrons	58
Site for Citrus Orchard ..	58
Setting Out an Orange	
Grove	59
The Washington Navel	
and its Future	61
Stocks	63
VALUABLE TABLES	64
Distances for Planting ..	64
Crown Gall	65
Time of Bearing	66
TESTIMONIALS	67

TO OUR CUSTOMERS.

Our catalogue again this year contains no additional varieties. We have however cut out a few varieties that have no special merit.

It has always been our policy to test as far as possible any new variety accepted for our catalogue, and to offer same for sale at our usual prices. Our firm never has asked, and we hope never will ask, higher prices for new introductions, as we fully recognise that it is more than likely they may turn out no more valuable than those already recognised as of established commercial value. Our policy is to help the grower, securing the best possible results, and the longest ripening line of suitable varieties of trees, at fixed and standard prices.

We would draw planters' attention to the article on Apples on Communis root. This is a return to our policy of some years ago. Clients may recall that for many years we supplied Apples both on blight-proof and Communis stocks. Many growers in the Western Province are prejudiced against Northern Spy stock, on account of its dwarfing tendency to the resultant trees.

We wish to thank our clients throughout Africa for the consistent support that they have given to our firm. We feel that they thoroughly recognise that we strive, to the utmost of our ability, to serve the best interests of planters, in each and every instance.

H. E. V. PICKSTONE & BROTHER, LIMITED.

P.O. Simondium, C.P.,
1st January, 1930.

FOR PRICES SEE PAGES 14 and 15.

INTRODUCTION.

It gives us great pleasure to submit our 36th Annual Catalogue and Price List to the South African public interested in Fruit Growing.

Our business is more than South African, as we do considerable business with Central, East and West Africa, both British and Portuguese, Uganda, St. Helena, the Belgian Congo, Mauritius, Egypt, and also Europe and India.

Advice to Planters. We shall (outside of the selling season) always be pleased to assist our customers with information in any way we can; it is **distinctly a pleasure for us to do so**. All interest is **not** lost directly payment for same is received. Careful account, dating back for thirty-six years, is kept of the particulars of each consignment. Our clientele can, therefore, at any time (if they lose track of the varieties purchased during this period) get a duplicate from us to put them straight.

Complaints. If there should be any complaint to make on receipt of consignment, we should esteem it a favour if you will make it, **and without delay**, to enable us to have an opportunity of looking into the matter.

Size of Trees. Our trees are—as always—sold by height, as specified on pages 14 and 15, and great care will be taken to have the grading liberally done.

Regarding the respective value of the different sizes of trees, both have exceeded expectations of buyers. It is usually considered that the first size trees are easier to transplant.

Time for Planting. Our shipping season for deciduous trees commences early in June and continues till early September, or, with the aid of cold storage, until end of October.

Selection of Varieties. A great many of our customers leave their selection entirely to us; we try to merit their confidence in this respect by following up the history of varieties in the different countries and districts. A great deal of planting, however, has now been undertaken all over the country; and we feel sure that the first thing intending planters of orchards should do is to ascertain the behaviour of the different classes and varieties in their immediate neighbourhood. After posting yourself on the results of your neighbours' plantings, it will be time to communicate with us, informing us of the results of your inquiries, and as to how you intend disposing of the product; whether in its green state, by canning, sun-drying or evaporating, or as a home orchard only; we shall then be placed in a position to give you advice, which we trust will be of value to you.

Our description of varieties can be relied upon with a fair degree of accuracy, being drawn not only from leading authorities, but mainly from actual South African data.

Clients must, however, remember that varieties occasionally vary in the matter of colour, size, etc., in different parts of the country, owing to climatic and other differences. This refers also to their date of ripening.

Stocks. Owing to the prevalence of the Woolly Aphis, or American Blight, throughout most parts of South Africa, we have found it desirable to work our **apples** mainly on to Blight-proof stock. We use the Northern Spy stock of our own growing. We have now for thirty-six years had experience of this stock in all parts of South Africa, and can say that it has proved absolutely Blight-proof and is suited to all the varying climatic conditions and soils of this country.

All apples on Blight-proof stocks are guaranteed to be as described and sold, and are absolutely Blight-proof up to the bud or graft, which is generally about 12 inches above ground level, thus insuring against any possibility of the Blight getting below the ground.

With the exception of a few varieties which are completely immune from blight, both root and branches, it must not be expected that the branches of varieties will remain clean from attack simply because the trees are worked on Blight-proof stocks. It will, though, be sufficiently plain to clients that it is comparatively easy to eradicate Blight from branches, whereas it is almost an impossibility to remove the blight once it has got into the roots, which it can never do if the trees are on Blight-proof stock. We give this information as we have on several occasions found misunderstandings occurring on this point.

Apple Trees on Common Seedling Roots For those planters indifferent to the advantages of having their trees on Blight-proof stocks, as well as for others who may disfavour the Northern Spy as a root for the Apple, we work and offer for sale certain of the most favoured commercial varieties grafted on selected seedling stocks of our own raising. These make a strong growing tree, though not resistant to American Blight.

We will say that, in our opinion, so far as concerns the Western Province of the Cape, where the Woolly Aphis is to a great extent kept in check by certain parasites, the more resistant varieties worked on selected seedling stocks can be recommended for planting.

Here again we make no excuse for once more urging upon the buyer of Apple trees on Blight-proof stocks, the vital necessity of making sure that the genuine article is being supplied, and that is a stock having the pedigree variety grafted on to it well above ground level. Unfortunately it has recently become a very common practice to graft the pedigree variety on to the Spy root below ground level, for by so doing a year's time and considerable trouble and expense is saved. Such trees, though offered for sale as on Blight-proof root, are no more Blight-proof than if worked on ordinary seedling stocks.

The **Pears** are worked on seedling pear stocks only.

The **Plums** are worked both on Peach and Mariana stocks. The latter stock we can recommend with confidence, after many years of experience.

Further, it must be mentioned that many varieties of domestic plums will not make a sound junction when worked on peach stock, and **vice versa**. These are technical points which must not be overlooked, and purchasers should rely on their nurseryman to use his best judgment thereon.

The **Peaches, Nectarines** and **Apricots** are worked on peach stock only.

The **Almonds** are worked on peach stock. We have a few on Mariana stock. This stock shows considerable promise in most soils.

"HINTS ON FRUIT GROWING."

By H. E. V. Pickstone.

We shall be pleased to send a copy of this book in either English or Afrikaans, free of all expense, to any grower who cares for one.

We are convinced that a perusal will obviate many mistakes, and much valuable information on all matters pertaining to the Fruit Industry from the experience of many experts is compiled therein. Also it contains the advertisements of many of the leading firms who stock fruit-growers' supplies and is of considerable value as a reference book on most matters pertaining to fruit growing.

The ninth edition in English is now available.

DO YOU WANT TO HELP US AND YOUR FELLOW FRUIT-GROWERS ?

If so, when you have a spare half-hour and your trees have been planted a few years and are beginning to show results in bearing, drop us a few lines as to which sorts are proving the most successful with you, especially in apples, pears, peaches, apricots, nectarines and plums. **We are fully posted on the citrus position throughout the Union.**

We shall have these tabulated as a record, and it will assist us to minimise the risk of beginners planting other than the most suitable varieties. We already have a great deal of data in our office, outside the personal experience of our Managing Directors, but for the sake of the industry, and for planters in general, and for our own sake, we wish to reduce waste planting to an absolute minimum, and thus avoid loss of labour, time and money.

FOR PRICES SEE PAGES 14 and 15.

INSTRUCTIONS TO CORRESPONDENTS WHEN ORDERING.

PLEASE READ VERY CAREFULLY.

1. All correspondence should be addressed to H. E. V. Pickstone & Brother, Limited, P.O., Simondium, Cape Province.

All Money Orders payable at Simondium.

Bankers : **Standard Bank, Paarl.**

Telegraphic Address : "Pickstone, Simondium."

Telephone : No. 12, Simondium.

Order Forms 2. Customers will oblige us very much by using, as far as possible, the printed order form annexed. We have inserted it in duplicate as so many clients send in several orders, either for themselves or friends.

When many hundreds of orders are received, prompt despatch is greatly facilitated thereby. However, if this is not possible, please write your order legibly on a separate sheet and not mixed up in the body of the letter.

Alterations and Delays **Alterations or delays to Orders.** Under no circumstances can we accept alterations to any order later than fifteen days before the arranged date for despatch.

Packing Charges. 3. All orders are carefully labelled and securely packed in the best manner, for which a moderate charge (which does not nearly cover the cost) will be made, as follows :—

- (a) **Deciduous Trees.** Packed in bales.
3s. per 100 trees ; £1 per 1,000 trees.
Smaller bales, 1s. each.
- (b) **Citrus Trees.** Packed in specially-constructed crates.
9s. per 100 trees.
Small crates containing 10 to 15 trees, 3s. 6d. each.

If an order is for less than 10 trees, unless instructions are given to the contrary, they are packed in a bale.

Responsibility for delay or loss 4. We must emphasize the fact that all orders are at the risk of the purchaser after being put on rails. We must not be held responsible for any loss or delay that may occur through the negligence of the forwarders, or for the failure of any trees after being planted, as it must be recognised that once the trees have been placed on rail, well packed and in good condition (which we guarantee), they are entirely beyond our control.

FOR PRICES SEE PAGES 14 and 15.

Late Planting 5. Kindly specially note that it is very difficult to hold back trees standing in the nursery beyond the middle of August. This is, of course, dependent on the season, and the component parts of the order. For instance, Apples can be readily held back until later, but the sap rises in Almonds, Quinces, and certain varieties of Peaches much earlier. It must, therefore, be distinctly understood, between buyer and ourselves, that we shall, if necessary, in the interests of our client, send on the order at the latest date possible. In any instance we shall inform our client to this effect by wire so that he may have opportunity to prepare the land.

Complaints 6. Our customers are requested to notify us, **immediately on receipt of consignment**, of any mistakes that might have occurred in their order, or any overcharge or other error in their invoices, and we will at once gladly rectify the same, as we desire to conduct our business in every way satisfactorily to those who may favour us with their confidence.

Substitutions of Varieties 7. Where particular varieties are ordered, and particular sizes, kind of stock, etc., it should be stated whether, and to what extent, substitutes will be allowed in case an order cannot be exactly filled, as sometimes happens in all establishments. In case no instructions to this effect accompany the order, **we shall feel at liberty to substitute other varieties as nearly as possible similar to the original order**, never, however, supplying stuff at a higher price than that of the original order.

If no substitution is desired, write "**No substitution**" on order sheet, and we will fill only as far as we have the stock.

Substitution of Sizes Should a customer wish a certain number of first-size trees of a particular variety, and we find we are short of the latter size, second size of trees, at the cheaper rate, will be sent to fill the order, **unless instructions are given to the contrary at the time of ordering**, but first-size trees, at the higher rate, will never be substituted for second-size trees without the sanction of purchaser.

When Selection Left to us When the selection is left to us, customers should state what proportion of early, medium or late fruit is wanted. **Please remember this.**

Full Address Clients are requested to kindly write their full postal address on each communication, as we find occasionally delays occur through insufficiently addressed letters.

Terms Our terms are nett cash on receipt of consignment.

TO CLIENTS IN KENYA COLONY, NYASALAND, UGANDA PROTECTORATE, TANGANYIKA, PORTUGUESE WEST AFRICA, MOZAMBIQUE AND OTHER FOREIGN PARTS.

We have much pleasure in informing clients that Kenya Colony is now open to us for the supply of Citrus Trees of all varieties as well as for Deciduous Trees and Vines. For some years we have been excluded from this territory so far as Citrus is concerned on account of the presence of citrus canker in the Transvaal, although this serious disease has never been within a thousand miles of our nursery. The position has lately been reviewed by the Government of Kenya Colony with the above result.

Previous to the restriction mentioned thousands of our Citrus trees were each year exported there with marked success and very little loss.

When ordering trees it is necessary to state the port to which clients wish them shipped, and also desirable that we are given the name of forwarding agent who will receive the trees, clear them and reconsign them to their ultimate destinations. If no Forwarding Agent is given we shall consign to our own Agents at the Port.

Accounts for freight are rendered by the following mail. Remittances may be made by bank draft, or by money order on Simondium Post Office.

In Kenya Colony, Nyasaland, Uganda, Tanganyika and Mozambique, **permits must first be obtained** from the Agricultural Departments of these countries.

TREES SENT BY PARCELS POST.

UNION AND BASUTOLAND.

Under the Post Office Act clients are enabled to have their trees sent by Agricultural Parcels Post in the Union of South Africa at nominal rates. The charges are as follows :

Up to 1½ lbs.	..	..	..	..	..	3d.
Up to 3 lbs.	..	..	..	..	..	6d.
Up to 6 lbs.	..	..	..	..	..	8d.
Up to 9 lbs.	..	..	..	..	..	10d.
Up to 11 lbs.	..	..	..	..	..	1/-

A package of 11 lbs. would contain about 20 second size trees or 12 first size.

We charge 1s. per bale for packing.

Orders for 50 or more trees by **Agricultural Parcels Post will be sent postage free** to any Post Office in the South African Union.

It will be seen that clients at a distance can get their trees in some cases cheaper by post than by rail.

We may mention that for Parcels Post orders we naturally have to select the lighter trees, so that clients obtaining their trees by post must not expect to receive as large a tree, either in first or second sizes, as they would receive were the trees sent by rail.

We therefore recommend our clients to have their trees sent by rail whenever convenient unless small trees will satisfy them.

Parcels Post is very well suited for the transportation of small orders for Citrus trees. By this method orders for Orange and Lemon trees can be sent with a considerable degree of safety quite cheaply. It should be noted that when Citrus trees are packed for post they are partially deprived of their leaves, so that when they are unpacked and planted out it is especially necessary to shade the stems either by a thick coating of whitewash, or by a jacket of straw as recommended later in this Catalogue.

The above rates of postage apply only to places in the South African Union, including Basutoland but not Swaziland or South-West Africa.

BECHUANALAND.

Trees can be sent by Agricultural Parcels Post to Bechuanaland (excepting Ghanzi, Maun, and Kasane) at the following rates:—

Up to 3 lbs.	..	..	..	..	1/-
Over 3 lbs. and under 7 lbs.	..	..	..	..	1/6
Over 7 lbs. and under 11 lbs.	..	..	..	..	2/-

and we will pay postage on all orders for 50 or more trees to this Territory.

TO CLIENTS IN SOUTHERN RHODESIA.

Please note that when the trees are despatched the necessary Customs Form is at once posted to consignees together with Advice Note, etc. Clients should wait for this form, and take it to the station with them when they fetch their trees. If they live a long way from the station it is always best to give us the name of an agent who will clear the trees for them and thus save them time.

The Agricultural Department, Salisbury, now permit Citrus trees from the Cape to enter Southern Rhodesia, subject to a permit first being obtained from the Director of Agriculture, Salisbury. Clients should obtain the necessary permit prior to sending their orders.

TO CLIENTS IN NORTHERN RHODESIA & THE CONGO.

To encourage the planting of our trees in the above Territories we are this season prepared to pay railage to any station in Northern Rhodesia and as far as the Congo Border on all orders for fifty or more trees and vines.

Citrus Trees are now permitted to enter Northern Rhodesia, but permits must be obtained for same from the Director of Agriculture, Livingstone.

CANCELLATION OF ORDERS.

Possibility of necessity to cancel orders already booked.

A heavy percentage of our business is done by advance booking; but we wish to distinctly point out to customers that we cannot have orders, which have been received and booked months in advance, thrown in on us in July or August. Our selling season is practically ended at that date, and it is then impossible to re-sell the cancelled trees.

In future, therefore, provided an order is not cancelled by **May 31st** we shall take it that our client intends planting. Many of our clients postpone, from time to time, the despatch of their trees owing to the non-arrival of the always hoped-for rain. We would again point out that, provided the trees at planting are treated as fully described, it is distinctly an advantage not to wait for rain, as, should it come a few weeks later, the trees will already have begun to form the roots, and the rain will materially assist.

*Price List for 1930 Season***DECIDUOUS TREES**

(Apples, Pears, Peaches, Nectarines, Apricots, Plums,
Prunes, Cherries, Almonds, Quinces, Figs.)

Plant from 15 June to 31 August.

SIZES OF DECIDUOUS TREES.

(Except Figs and Walnuts.)

Size 1.—Over 3 ft in height.

Size 2.—Over 2 ft in height.

These Sizes are usually much Exceeded.

		Size 1.	Size 2.
3 trees or less	.. ..	2/6	2/- per tree.
4 to 100 trees	.. ..	2/-	1/6 „
100 or more trees	.. ..	1/9	1/3 „

APPLES on **BLIGHT-PROOF** stock, 3d. per tree extra
for above sizes.

EXTRA SIZED TREES (any quantity or variety)
2/9 each.

A few Mulberries, Walnuts and Loquats. Size 1, 3/-
Size 2, 2/- per tree.

SPECIAL PRICES FOR COMMERCIAL PLANTERS.

(Exclusive of Apples on Blight-proof Stock, Walnuts,
Mulberries. and Loquats.)

For lots of not less than 25 trees of same sort and
variety.

Size 1, 1/3 Size 2, 1/- per tree.

PACKING : 3/- per 100 or £1 per 1,000 trees. Small
bales, 1/- each.

THIS PRICE LIST CANCELS ALL PREVIOUS ONES.

*Price List for 1930 Season***VINES**

Plant from 15 June to 31 August.

ON PHYLLOXERA PROOF STOCKS.

Strong vines 1/- each, or ~~£4~~ per 100. Packing 2/- per 100 vines.

CITRUS TREES

(Oranges, Lemons, Nartjes, Grape Fruit, Limes, Citrons).

Plant any time dependent on local conditions.

SIZES OF CITRUS TREES.

Size 1. Over 2 ft. 6 ins. in height, minimum.

Size 2. Over 2 ft. in height, minimum.

Size 3. Over 1 ft. 6 ins. in height, minimum.

These Sizes are usually much Exceeded.

	Size 1.	Size 2.	Size 3.
Under 25 Trees.. .. each	4/3	3/3	2/9
25 to 100 Trees.. .. „	3/9	2/9	2/3
100 to 1,000 Trees „	3/3	2/3	1/9
1,000 Trees and over „	3/-	2/-	1/6

EXTRA SIZED TREES 5/- each (any quantity).

NARTJES, 6d. per tree extra for all sizes and quantities.

SPECIAL PRICES FOR COMMERCIAL PLANTERS.

For lots of not less than 100 trees of same sort and variety.

	Size 1.	Size 2.	Size 3.
Per tree	3/-	2/-	1/6

NARTJES, 6d. per tree extra for all sizes.

PACKING 9/- PER 100 TREES.

NOTE.—Our smallest size of citrus crate holds from 10 to 18 trees, for which, when filled, our charge is 3/6. If less than 10 citrus trees are ordered, they will be packed in a bale, unless instructions are given to the contrary.

THIS PRICE LIST CANCELS ALL PREVIOUS ONES.

FREE DELIVERY.

Conditions for Free Delivery We are continuing our carriage-paid delivery of Fruit Trees and Vines throughout South Africa, and all clients who order 50 trees and upwards, no matter how many varieties or sizes may be included therein, will receive them invoiced at the prices as clearly stated elsewhere, at any railway station or railway road motor station south of Lourenco Marques and Congo Border.

To encourage planting in Northern Rhodesia and the Congo, we will for this season pay Railage to all stations in Rhodesia and as far as the Congo Border.

This clause does not apply to orders which have to be sent oversea. In such cases, carriage will be paid to the port of shipment; Natal orders will, however, be sent per rail.

The 50 trees or over must be sent in one consignment, otherwise they will go forward carriage to pay.

GUARANTEE OF HEALTH AND GENUINENESS, AND CONDITIONS OF SALE.

Every possible precaution is taken to prevent errors and to ensure that our trees are true to name, but it is impossible to give any guarantee, express or implied, to this effect. It is therefore an express term of every contract for the sale of trees that, in the event of any trees being found untrue to name or label, we will be liable only either to supply fresh trees in the place of those found to be untrue to name or label or to refund the purchase price of the individual trees in question and that no other or further liability for loss or damage direct or indirect, will rest on us.

We further stipulate that in cases of orders booked for delivery more than three months ahead we will not recognise any liability in the event of failure to effect delivery on the agreed upon date, if such failure be caused by the trees failing to grow to standard size owing to adverse weather or other conditions or by their delivery being rendered impossible or impracticable for any other reason.

This guarantee further ensures to clients that all Apple trees sold by us as worked on blight-proof stock are duly worked on such stock; and again, all Vines are grafted on Phylloxera proof stock.

Every precaution is taken by us and our buds are cut from healthy trees.

All trees at time of leaving our premises, are guaranteed healthy and free from Crown Galls, Insect Pests and other diseases.

ORCHARDS CAN BE PLANTED WHEN LAND IS DRY.

Over by far the largest area of South Africa, the rains fall in the summer; as a rule, the earlier may be expected in October and November, rarely in September. This makes the risk in planting young trees the first season a slightly greater one than where the rains fall during the planting season. Under the latter condition the tree is planted in moist soil and gets nice rains on it after planting settling it comfortably to begin its growth. Whereas under the former condition the soil is parched and dry, and great care is needed

in planting the tree to see that water moistens all the soil around the roots, and that such soil is kept moist until the first rain comes ; if this is not done, a risk of the death of the tree is taken. We touch on this under the head of "Initial Difficulties in Starting an Orchard in South Africa," in our Mr. H. E. V. Pickstone's "Hints on Fruit Growing."

That many planters find this a source of anxiety we are sure ; we are continually getting letters during the planting season asking us "to hold back the trees as long as possible as the rains have not yet come." Now it is impossible to hold back trees, *i.e.*, keep them dormant for an indefinite period under the weather conditions prevailing in September, in either Eastern or Western Provinces ; and unless they are absolutely dormant, they should be already planted *in situ* in orchard.

After a wide experience with our trees in the Transvaal, Orange Free State and the Eastern Province, Rhodesia and Natal, where these conditions prevail, we are satisfied that there will be very little, in fact, no loss, if the planter will see that, at planting, each tree gets a couple of buckets of water round and between the roots after being set. In applying it, first scoop away the surface soil and pour the water into the hole. When all the water has sunk away, throw back the dry surface soil. Trees treated in this manner should remain moist for a fortnight ; and after that time they can be similarly treated every 10 days until the rains come. By that time they should have made a good start with their season's growth.

DEEP PLANTING OF TREES.

We specially wish to impress upon planters that trees should be planted in orchard at exactly the same level they stood in the nursery, no shallower and no deeper. We have seen many instances where trees have been planted up to even one foot too deep—such trees will **never** give a good result. An injury to the nurseryman, and fatal to the orchardist. Hence this warning.

SUMMER PLANTING OF FRUIT TREES.

We are now, right in the middle of the summer, receiving quite a number of orders for immediate planting. We advise our clients who want deciduous trees, that unless they have been ordered and placed into the cold storage during the winter, we cannot supply them at this time of the year, and we strongly deprecate the planting of trees in growth. If they are healthy trees they must be in strong growth now ; and if they are unhealthy, they are not worth planting at all. In reply, we hear that many in the Transvaal are recommending this procedure ; and we therefore wish to state that it is useless applying to us during January and February for any trees except all varieties of the Citrus family. These trees do excellently well planted in the summer, when they have clearly defined dormant periods, and we are always prepared to book Citrus orders for delivery then.

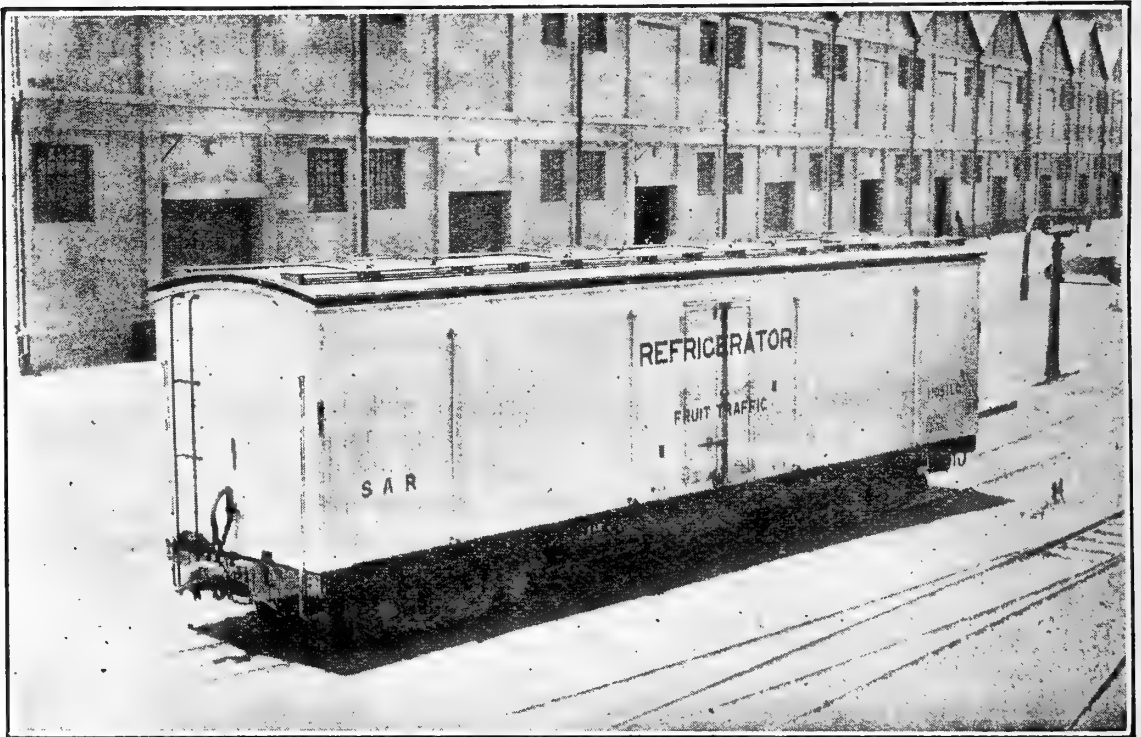
COLD STORAGE OF TREES.

If, for some reason or other, the scheme mentioned in the above paragraph is impossible, there is the alternative of placing the trees in cold storage.

We have made arrangements to do this for the benefit of our customers at cost price, which is 1s. per bale per week. Size of the bale is not taken into consideration.

Our experiments enable us to guarantee trees dealt with in this way to remain dormant, and in fine planting condition, until about the middle of October, and they most probably may be kept in this way in good condition until November, but it must be understood that when detained so late, we can offer no guarantee.

It must be borne in mind that by taking this course some risk is entailed, particularly when it is desired to hold the trees back till late in the spring, so **we would advise planters not to have their trees placed in cold storage unless**



South African refrigerator truck for export of inland deciduous fruit.

the suggestion offered in the preceding paragraph about watering the trees until the arrival of the rains is really impracticable.

We find that the beginning of August is the best time to place orders in cold storage, and trees can be taken out at any time, on our client wiring, or writing to us that rain has fallen.

It would also be of great assistance to us, if, at the time of placing orders for cold storage, customers would give us full particulars as to destination, route, and ultimate delivery before the trees are sent into the store. If this information is left over until the instructions are received to forward the consignment, a great deal of trouble is brought about in getting the bales correctly labelled, as our trees are cold-stored in Cape Town.

FOR PRICES SEE PAGES 14 and 15.

DECIDUOUS TREES.

How to Handle Deciduous Trees after Arrival.

On Receipt of Consignment. As soon as possible after the trees have arrived each bale should be carefully opened up. After the canvas covering has been removed, care must be taken to cut first the outside strings which bind the entire contents together. There are usually several bundles of different varieties of trees in each bale, and if the strings round these are cut first by mistake these different sorts may get mixed.

The bale is then unpacked, and when the trees are in good condition, as is usually the case, they should be planted out immediately. If it is not convenient to do so the trees must be heeled in in a thoroughly well drained and shady spot, that is, placed slanting ways in a trench with the roots well covered with fine soil. In this way, provided the soil is not allowed to dry out, they will keep in good condition for some weeks; but they must be planted out before the first sign of growth shows. **Extreme care must be taken that trees are not heeled in in a naturally wet spot, or one likely to be flooded.**

If the trees happen to arrive a little dry, they should first of all be entirely immersed from twelve to twenty-four hours in cold water, preferably running water. If they arrive very dry and shrivelled, through delay en route, they can be immersed for a period of forty-eight hours in cold water. It will seldom be found that the trees are altogether past recovery. If the trees arrive very dry, another good plan is to bury them completely for two to three days in moist soil.

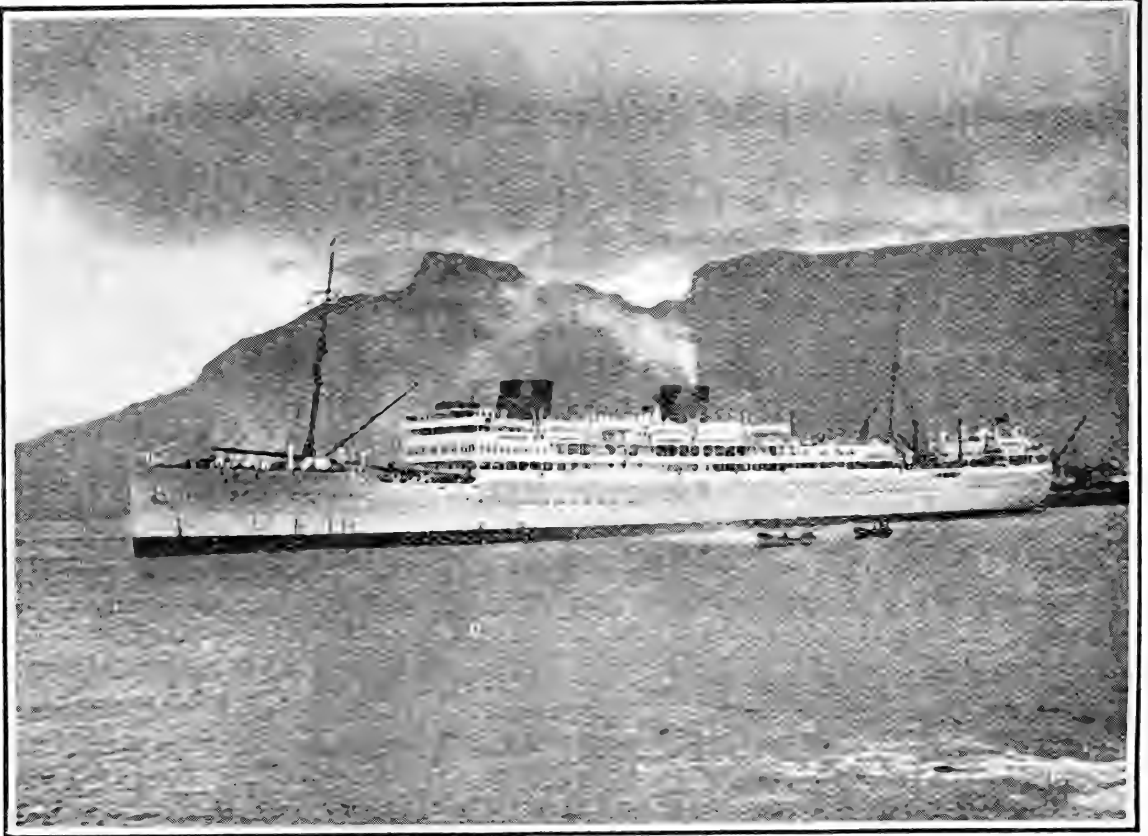
Trees may be kept without Unpacking In cases where a cellar, barn or other cool place is handy, the bale may be kept there for a week or so with perfect safety without being unpacked. It is only necessary to immerse the end of the bale where the roots are for a few minutes in water. The only objection to this method is that without opening the bale it is not always easy to know what condition the trees are in, so that unless one is first assured of their being in good condition, it is better to open up and heel in, or treat as above described.

Cutting down of Deciduous Trees at Planting Always cut about knee height, or thereabouts; should the trees have good healthy, strong, lateral branches about this height, shorten these in to about six inches from the main stem; this particularly applies to two-year-old trees. Walnuts do not need cutting down at planting. Figs should be cut down to about six inches to nine inches from ground level.

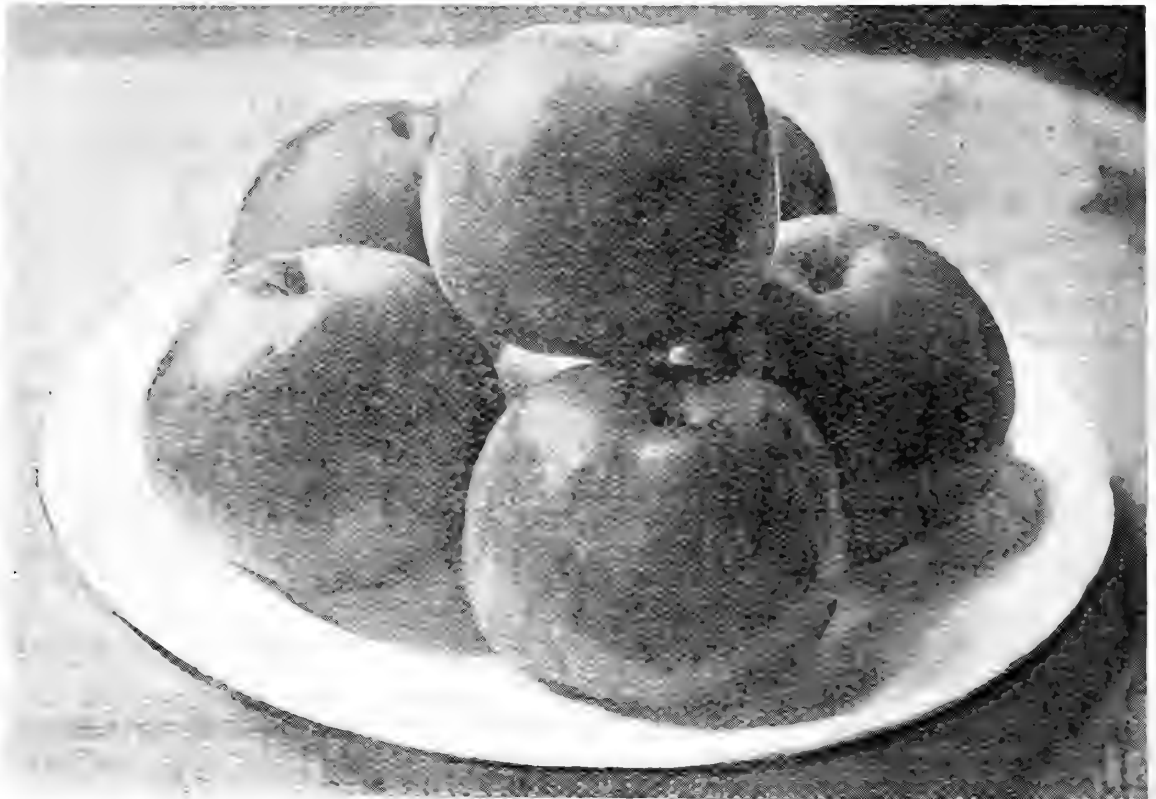
Descriptive List of Deciduous Fruit Trees.

NOTE.—The first month named after the termination of the description is the month when the variety ripens. The last-named signifies until when it should be marketable, *e.g.*, Cleopatra ripens March, keeps till May when properly stored.

The varieties marked with an asterisk (*) are those that our firm have introduced to South Africa, and a reference to these will show to what a large extent the present position of the fruit trade within the Union—and also outside—is due to the enterprise of our firm during the last 37 years.



The *Carnarvon Castle* leaving with a full load of fruit from pre-cooling plant.



JONATHAN APPLES.

FOR PRICES SEE PAGES 14 and 15.

Apples.

***Ballarat Seedling** A first-class culinary apple ; large, green and yellow, with red cheek ; late. Approved of in this country, Can be recommended.

***Ben Davis** A popular and widely-distributed apple in America, especially through South and South-West. Tree hardy, free grower, abundant bearer, and late bloomer ; fruit often of not the best quality, but excellent keeper, medium to large, skin yellowish, splashed red, flesh white, tender, moderately juicy. March to July, when stored.

Blenheim Orange Pippin An old and well-known apple of English origin, suited for cooking and dessert. Large, yellowish, becoming deep orange, stained and streaked with red on the sunny side. February and later. Tree a vigorous grower. Late bloomer. Does well in South Africa.

Cellini An early cooking apple of English origin. Medium to large size, deep yellow, streaked or mottled red ; flesh white, juicy, tender, fresh and pleasant. Free grower and excellent bearer. A fair success East and West. January and February. Will not store.

Christmas An old Colonial variety, sometimes called New Year apple ; is highly recommended, a good bearer and free grower, fruit of medium size and high colour. Known as the Lady apple in Natal. January.

Cleopatra An Australian variety that has been thoroughly tested here. Of good medium size, green, bright yellow when ripe, and an excellent shipping apple. Tree a fair grower, and very heavy and very regular cropper. Late dessert. March—May, when stored.

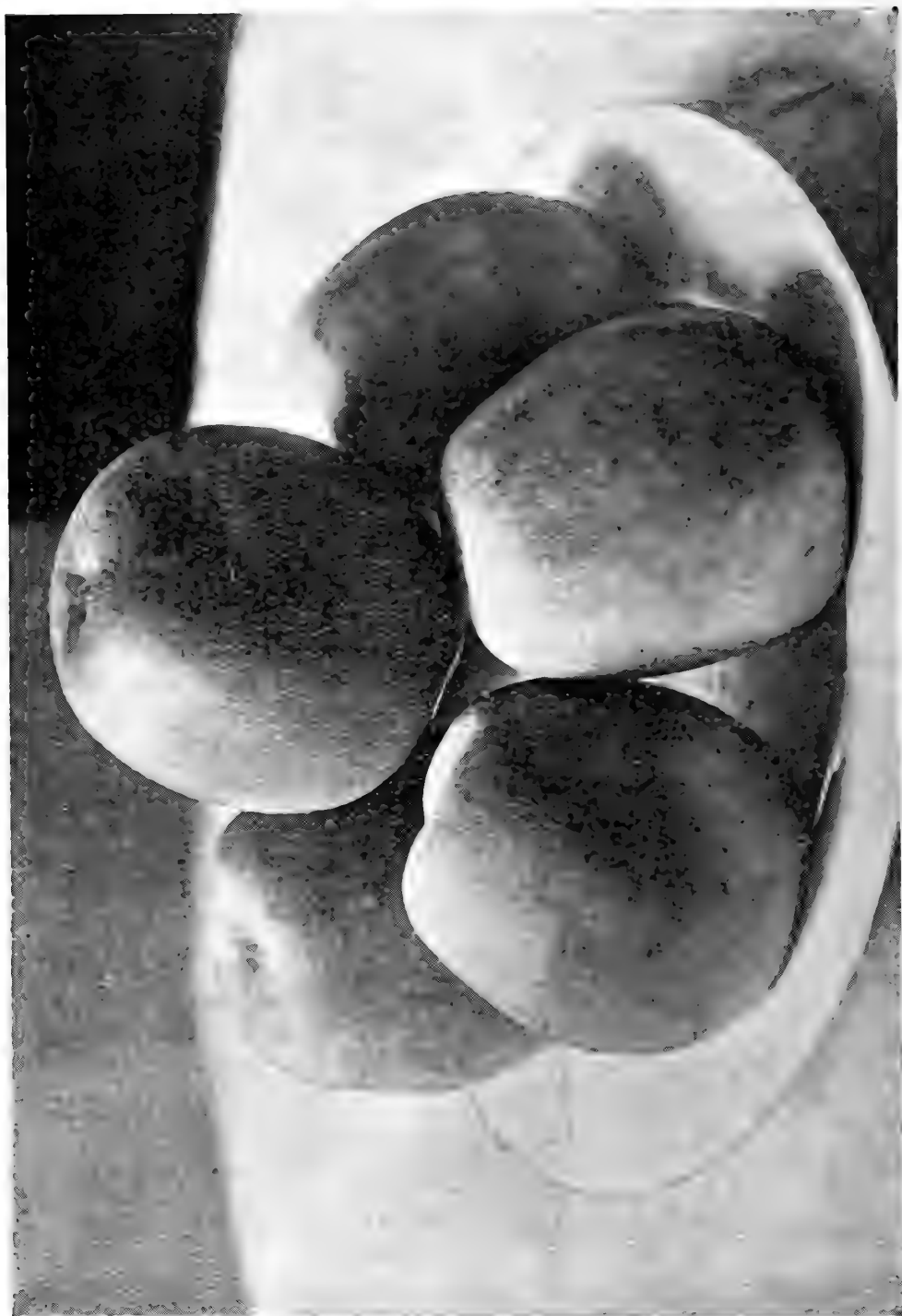
***Cliff's Seedling** Fruit large, " Pearmain " shaped, and reported highly coloured. Flesh yellow, crisp, juicy and of exquisite flavour ; a late keeper and valuable market variety. Tree remarkable for its upright and vigorous growth ; perfectly blight-proof ; late. Very little South African data.

***Commerce** An American variety of great merit, introduced by us. A free grower and heavy bearer. Fruit nearly round and of large size. Keeps well. April and later. Behaviour here good. Suitable for export.

Delicious A most beautiful apple from Iowa. Tree a strong grower, hardy and most prolific bearer ; fine colour like "Jonathan," and most exquisite flavour. One of the best keeping apples. Does well here.

***Early Harvest** One of the few American apples highly approved of in England. Medium to large, pale yellow. Tree moderate grower, free early bearer. Flesh white, tender, juicy, crisp. A very early dessert apple of great excellence. Early December.

Emperor Alexander A cooking apple, showy, and of the largest size. Skin greenish yellow, streaked with red on the sunny side. Flesh white, juicy, tender and slightly aromatic. Strong and vigorous grower and good bearer. February—March.



CLEOPATRA APPLES.

FOR PRICES SEE PAGES 14 and 15.

Esopus Spitzenberg Rather large, slightly conical. Colour a rich red, obscurely striped, flesh yellow, crisp, acid, rich flavour, bears well here. Tree upright grower, willowy wood, tree in appearance like the Jonathan. Keeps very late into winter, when stored. Promises well here.

Gravenstein A German apple, in very good repute all over the world. Tree very vigorous and productive and an early bearer. Fruit large, greenish yellow, at first becoming bright yellow, and beautifully streaked and pencilled with red and orange. Flesh tender and crisp, somewhat aromatic. Valuable for market and cooking, succeeding admirably wherever grown. One of the best autumnal fruits. February—March.

***Jonathan** A beautiful American dessert apple, suited to most soils, shoots slender, but a vigorous upright grower, and very productive. Fruit medium size, skin yellow, with lively red stripes, deepening to brilliant red next the sun. Flesh white, sometimes pinkish, tender and juicy, with a mild vinous flavour. More extensively planted than any other in Australia. Subject to mildew on High Veld. February to April. Can be stored, and suitable for export.

***King of Tomkins County** Large, handsome, American apple, popular in the export trade, increased planting being recommended here. Large, striped yellow and red, tree vigorous and productive. Flesh yellowish, rather coarse, juicy, with a decided aromatic, vinous flavour. April to August. Stores well.

Late Bloomer This is the same variety as the Wemmers Hoek.

***London Pippin** Large, roundish, slightly flattened; colour greenish yellow, stalk short, flavour sub-acid. Tree a fair grower. One of the favourite Australian export apples. March to August. Stores well. Suitable for export.

***Lord Wolseley** A New Zealand apple of the greatest excellence, suited for either dessert or cooking. Of medium size, a moderate grower, a good cropper, foliage thick and dense, nearly blight-proof. April to August. Stores well. Subject to water core. Suitable for export.

***Missouri Pippin** Large; pale whitish yellow, splashed with light and dark red; flesh whitish; crisp, moderately juicy; sub-acid. Can be recommended. March—September. Stores well. Suitable for export.

***Monmouth Pippin, or Red Cheek Pippin** Of American origin, size large, pale yellow, blushed red, with russety spots. Free grower, and productive; good shipper and late keeper. Flesh juicy, fine, crisp, sub-acid, aromatic. April—August. Late bloomer.

***Nickajack** Fruit large, round, colour yellowish, striped and splashed with two shades red. Flesh yellowish, compact, moderately tender and juicy. A well-known American variety, ripening late and keeping well. The value of this variety is chiefly on account of its extreme hardiness and productiveness. Does well along the Eastern Coast Districts. April and later. Stores well.

Northern Spy A very popular American dessert apple of the best quality. Tree a vigorous grower and does not come early into bearing. Fruit large, greenish yellow, with a yellow red cheek next the sun. Flesh white, tender, juicy, crisp, sub-acid; a four months' keeper. Subject to bitter pit. Blight-proof. May—September. Late bloomer. Stores well.

***Ohinemuri** A New Zealand dessert apple of great excellence, fetching the highest price in Covent Garden. A moderate grower and early bearer. Flattened, skin bright yellow, slightly clouded brown; an excellent keeper. Maintains its reputation here. Same as "Munro's Favourite," the great Australian shipping apple. One of the best all-round varieties here. April—September. Stores well. Suitable for export.

Prince Bismarck Fruit large and handsome; skin yellow, sprinkled all over with broken streaks of red, especially on the sunny side. This is a New Zealand variety. Flesh white, tender, juicy, slightly acid. March—July. Stores well.

Prynnsberg Beauty. We claim this to be the same as Northern Spy, and is equally blight-proof.

***Red Astrachan** Of Russian origin, the standard early apple in California. Vigorous grower; free bearer. Of good size, almost entirely red, a little yellowish on the shady side. Highly esteemed in its season. Must not be allowed to hang after ripening. Sells on its appearance. January. Early bloomer. Will not store.

Reinette du Canada A large and handsome culinary and dessert apple. Skin greenish yellow, brownish on sunny side, covered with numerous brown russety dots. Approved throughout Africa. March to May. Stores well.

***Rhode Island Greening** A large and widely popular American dessert apple. Tree strong, vigorous, spreading grower; very productive. Fruit large, roundish, dark green, becoming yellow when ripe. Flesh yellow, fine grained, and containing a lot of aromatic juice. March—June. Stored.

Rokewood An Australian variety, highly coloured; beautiful appearance. One of the best late keepers, and the leading variety exported from Australia to South Africa. March and later. Promises well here. Suitable for export.

***Rome Beauty** An American winter dessert apple of great excellence, held in high esteem throughout the United States, and also in Australia, where it is particularly favoured by exporters. A moderate grower and late bloomer. Fruit large, roundish, yellow, shaded and striped with bright red, and sprinkled with light dots. Flesh yellow, tender, juicy, and sub-acid. April—August. Bears very young. Very late bloomer. Stores well. Cannot be too highly recommended, especially for high Veld. Suitable for export.

***Sharp's Early** Perfectly blight-proof as far as tested. Fruit of good size and most handsome appearance, yellow ground, covered with red and crimson stripes; tree a regular bearer and heavy cropper; ripens mid-December—January; one of the best early dessert apples. Highly recommended here.

Versfeld's A popular late apple throughout the country, always fetching good prices in the market. A free grower and early bearer, and enjoys considerable immunity from Aphis Blight. Fruit large, greenish yellow, freely streaked with red, almost entirely red on the sunny side. (The correct name is "Red Cauldwell.") March—September. Stores well. Highly recommended.

Wemmers Hoek A very old Colonial variety, too well-known to need description, hardy and prolific, but we consider of secondary quality; pays well however. Known throughout Eastern Province as Late Bloomer. March—September. Stores very well.

***White Winter Pearmain** Probably of American origin; highly esteemed in the Western States. Tree strong and healthy grower, and regular bearer. Fruit medium to large. Skin pale yellow, with a warm cheek, sprinkled with minute russety dots. Flesh yellowish, crisp, juicy, pleasant, sub-acid; nearly blight-proof; very popular in Eastern Province. April—August. Stores well. Recommended here. Suitable for export.

***William Anderson** A very pretty dessert apple, above medium size, good flavour and keeps well; tree blight-proof; late.

***William's Favourite** A very hardy dessert fruit, introduced by us from Australia. Is of good size, and ripens mid-December. Can be highly recommended here.



The up-to-date packing house just built for Miss Kathleen Murray, of Elgin, designed by Mr. A. E. Griffiths (Government Physicist), a perfect construction splendidly lighted, and a model which will be difficult to improve upon.

***Wine Sap** Medium size, roundish, flesh firm, crisp, juicy, Tree a healthy grower and free bearer. A successful variety here, but not of the largest size. March and later. Stores well.

***Yates.** The apple we have stocked for some years as York Imperial, our Chairman definitely identified, during his recent visit to Australia, as the Yates, which is one of their leading export sorts, so in future we shall give the York Imperial its proper name. It is of medium size, oblong, oblique, smooth, colour yellow, shades red, indistinct red stripes, flesh yellow, rich, sub-acid, very good. A beautiful apple here, but small. April—September. Stores very well.

***Yellow Newton Pippin** One of the most valuable of American apples largely figuring in the export trade from that country. Large, roundish, more or less flattened, with brownish-red cheek.

Flesh firm, rich, juicy, with very rich, high flavour. Hardy and an excellent bearer. A good keeper, does not maintain its reputation here. March—September. Stores well.

Pears.

We are much indebted to the kindness of the Cape Orchard Co., Ltd., for the accurate data *re* keeping qualities in storage.

Bon Chretien (Williams) The Bartlett of the United States. A prime favourite all the world over, unsurpassed in its season as a market fruit, and has no competitor for drying and canning purposes. A free bearer and upright grower. Ripens up well after picking, and will be mealy and unpalatable if allowed to ripen on the tree. Fruit large, pyriform, pale green, changing to yellow when ripe, and reddish on sunny side. Flesh white, fine-grained, buttery, melting, delicious flavour and powerful musky aroma. Bears young. January—March. Will not safely store more than two months.

Beurre Bosc Large, true pyriform, of good quality. Skin yellow, largely splashed with russet. Flesh white, fine, melting, buttery. A free grower and prolific bearer; a dessert pear of good quality that does well in this country. February and later. Excellent keeper. Will store till August.

Beurre Clairgeau A handsome showy pear of the largest size. Skin fine lemon colour, tinged red on the sunny side. Flesh white, juicy, sweet, slightly coarse. A free grower and very productive. Is not much favoured in Covent Garden. February and later. Fair keeper. Will store till June.

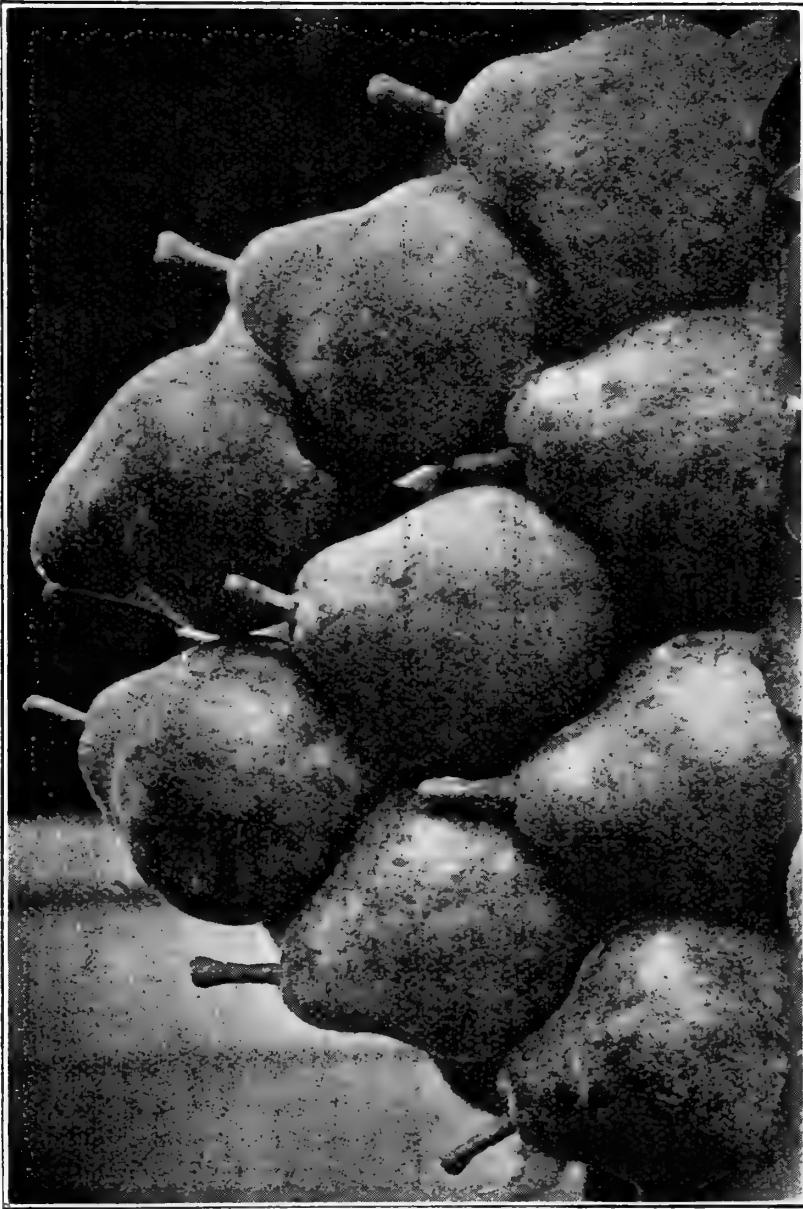
Beurre Diel or Magnifique A large and handsome dessert pear, of Belgian origin. Skin yellow, deepening marble, with russety dots. Flesh yellowish white, sweet and delicious. Tree a particularly free grower. This pear is grown in several districts in the Cape Province, as Beurre Magnifique, and is highly esteemed. Good shipper. March and later. Excellent keeper. Will store till July.

***Beurre Hardy** Fruit large, handsome, strikingly even in contour. Skin shiny yellow, covered with russety spots. Flesh white, sweet, melting, and perfumed. It is worthy of note that this pear is very acceptable in Covent Garden. One of the very best pears and grows well in the Cape Province. February and later. Good keeper. Will store till June.

Beurre Superfine Fruit above medium height, three inches wide and a little more high, obovate, somewhat uneven on the surface. Skin greenish yellow, considerably covered with patches of russet, stalk over an inch long. Flesh yellowish white, fine grained, buttery and melting. A very fine pear indeed. Bears and grows well here. March and later. Will not store more than six weeks.

***Clapp's Favourite** A large early pear, resembling William's Bon Chretien but ripens about one week earlier than it. Skin pale yellow, with brown dots. Flesh melting, buttery, juicy, with sweet, vinous flavour. Tree very hardy and productive, and likely to succeed where others fail. Very satisfactory in Western Province, but will not store satisfactorily. December—January.

December The well-known Cape Christmas Pear. Tree a vigorous and upright grower, an excellent and regular bearer. Fruit small and of good flavour. The earliest known pear, ripens early December. Adapted to the whole of South Africa.



BON CHRETIEN PEARS.

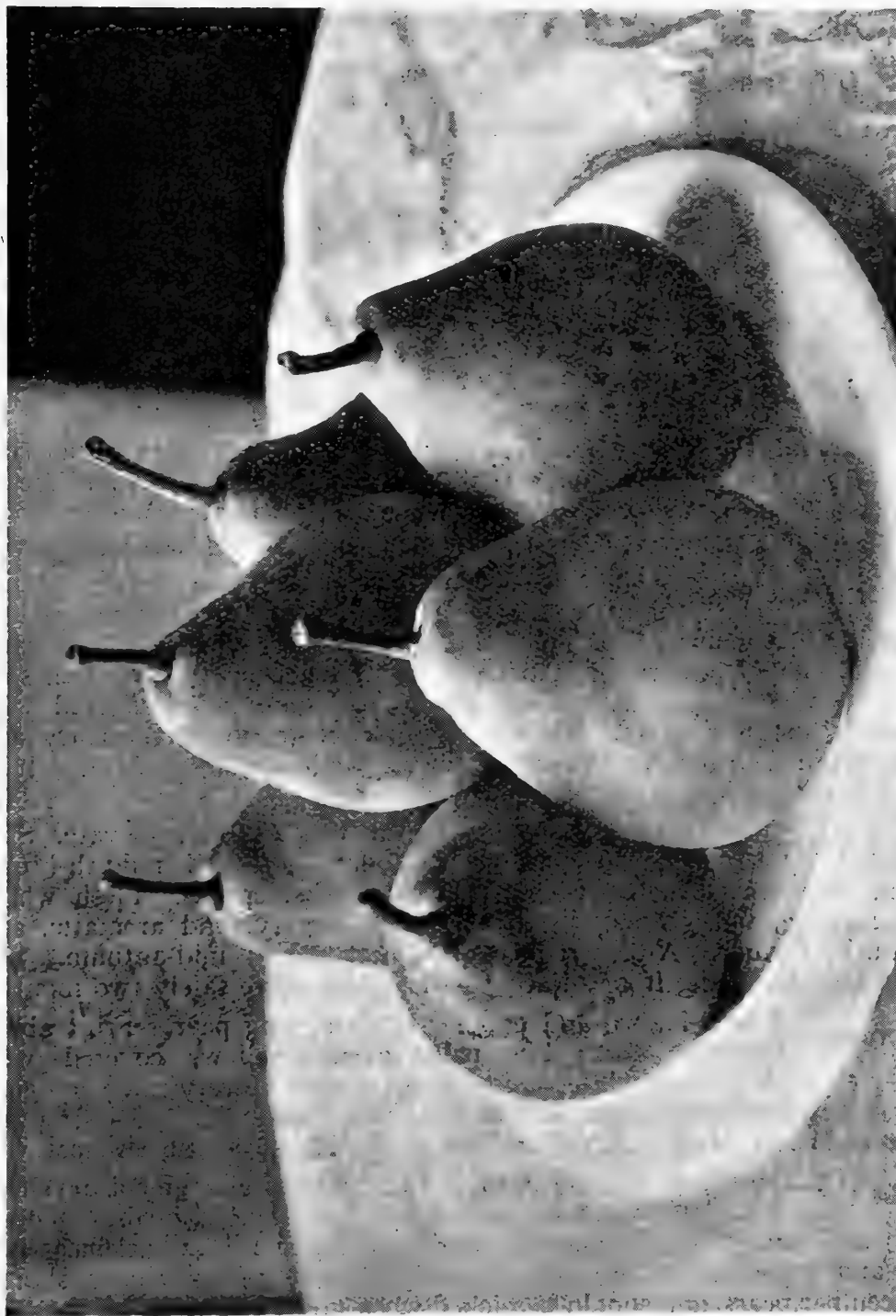
This variety is more largely grown in the Union of South Africa than any other Pear. The reason is obvious—it has three strings to its bow: very popular in Europe, the one and only for canning, and gives a far superior drying article to any other sort.

FOR PRICES SEE PAGES 14 and 15.



BEURRÉ BOSCH PEARS.

FOR PRICES SEE PAGES 14 and 15.



BEURRÉ HARDY PEARS.

Doyenne du Comice Large, varying, roundish, pyriform. Skin yellow, covered with specks and patches of brown russet particularly round the stalk. Flesh very tender, buttery, melting, juicy and rich. A most delicious dessert pear. Tree a healthy grower, but shy bearer in Africa. Stalk half an inch to one inch long. Good for export. Fetches each year the highest prices of all pears in all markets. March and later. Good keeper. Will store till June—July.

Duchesse D'Angouleme Fruit large to very large, roundish, obovate, very uneven in outline. Skin pale yellow, covered with veins of pale brown russet; sometimes takes a brownish tint. Stalk an inch long and stout. Flesh white, buttery, melting, delicious. A dessert pear of great excellence, and an excellent shipper. Tree of slender growth. April. Good keeper. Will store June—July.

***Easter Beurre** A standard late variety all over the world, of large size and excellent quality. Fruit roundish, flat, sometimes almost square. Skin yellowish green, freely sprinkled with russety dots. Flesh white, firm, grained, very buttery, melting, delicious. Tree a moderate grower, free bearer. Ripens too late for export. Will keep several months. May and later. Excellent keeper. Will store till September.

***Fertility** A most prolific variety, raised by Mr. Rivers; of medium size. Flesh half melting, juicy and sweet, with perfumed flavour. Stalk three-quarters of an inch to one inch long and stout. Bears young. March and later. Will not store satisfactorily.

***Forelle or Trout Pear** The most beautiful of all pears, of secondary quality only in Europe, but here it improves in quality, and takes brilliant colour, which makes it unsurpassed as a showy table fruit, Ships well. Should become popular in Covent Garden. Fruit medium size, oblong, obovate. Skin yellow, brilliant red on sunny side, covered with reddish dots, resembling trout. Flesh white, delicate, melting, sugary and aromatic flavour. Hardy and vigorous grower. Bears young. March—July. Excellent keeper. Will store till August.

Gansel's Bergamotte Fruit medium-sized, roundish inclined, obovate. Skin greenish-yellow on shaded side and reddish-brown next sun, the whole strewed with russety dots and specks. Flesh white, buttery, melting, but gritty; very juicy, rich, sugary, and aromatic, and strong musky flavour. A dessert pear of highest merit; mid-autumn. Shy bearer; needs fertilising from adjacent sorts. Will store safely two months.

Glou Morceau A well-known and popular late shipping pear. Fruit above medium size. Skin pale greenish-yellow, covered with greenish-grey dots. Flesh white, tender, sugary and buttery; a very good dessert pear, well-known in the S.A. export trade, and maintains its reputation here. March—July. Excellent keeper. Will store till August.

Jargonelle Fruit medium and pyriform; skin smooth and greenish yellow, tinged dark brownish-red next sun. Flesh yellowish-white, tender, melting, and juicy; rich vinous flavour and slight musky aroma. Tree healthy and vigorous. A well-known early dessert pear; ripens shortly after December pear, and should be picked when green and ripen off the tree. Will not store.

Josephine de Malines A late dessert pear of first-rate quality and of good size. Skin yellowish-green, reddish on sunny side. Flesh yellow, with a tinge of red, melting, sugary, juicy, with a fine aroma; straggling in its growth. Hardy and a good bearer. Very satisfactory in Africa. Highly recommended for export. March to August.

***Keiffer Hybrid** A very hardy American pear, most extensively grown, particularly through the Southern States, where thousands of acres of the variety alone are planted out; also being largely grown in Australia, where it succeeds equally well. A vigorous grower, and free from blight. Fruit of large size, rich colour, and good quality, excellent for canning. Should be house-ripened. Fruit is of good quality throughout Africa. Can be recommended as a money getter. March and later. Excellent keeper. Will store till September.

***Le Conte** Large pyriform. Skin yellow. Of medium quality only, but tree remarkably vigorous, healthy and prolific. Medium early. Will not store satisfactorily.

Louise Bonne de Jersey A very excellent pear, free grower and abundant bearer, carrying the fruit in clusters. Fruit medium large, pyriform; skin yellow on the shady side, reddish next the sun. Flesh white, juicy, and melting, with perfumed flavour. Good shipper. Well suited throughout Africa. February—April. Fair keeper up to two months. Good for export.

Magnate Fruit large, even and symmetrical in outline. Skin covered with dark-brown russet freckles. Flesh yellow, tender, melting, rather gritty at core; richly flavoured, somewhat of a rose-water perfume. Strong and free grower. Autumn.

Sweet Safrana An old Dutch variety; too well known to need description.

***Tongres** An excellent variety, and a heavy and early bearer. Tree takes a natural shape; is an upright grower. Fruit a true pyriform, highly coloured on the sun side. Is not a good keeper. March and later.

***Vicar of Winkfield** Fruit very large, pyriform; skin smooth, greenish-yellow, with a faint tinge of red on the side next to the sun. Flesh white, fine grained, half melting, juicy, sweet. A large pear suitable for stewing; much inferior to Keiffer; does well here. April and later. Good keeper; may be stored till July and August.

Winter Nelis A well-known standard variety. Tree characterised by a particularly slender growth. Fruit medium size, rounded; skin yellowish, covered with very numerous russet spots and patches of brown russet. Stalks from one inch to one and a half inches long, curved. Flesh yellowish, finely grained, buttery, vinous, with a fine aroma. A splendid late variety which suits the frostless districts of the country admirably, the fruit attaining a size not dreamt of in Europe. Splendid for shipping, and popular in London. March—August. Excellent keeper. Will store till August.

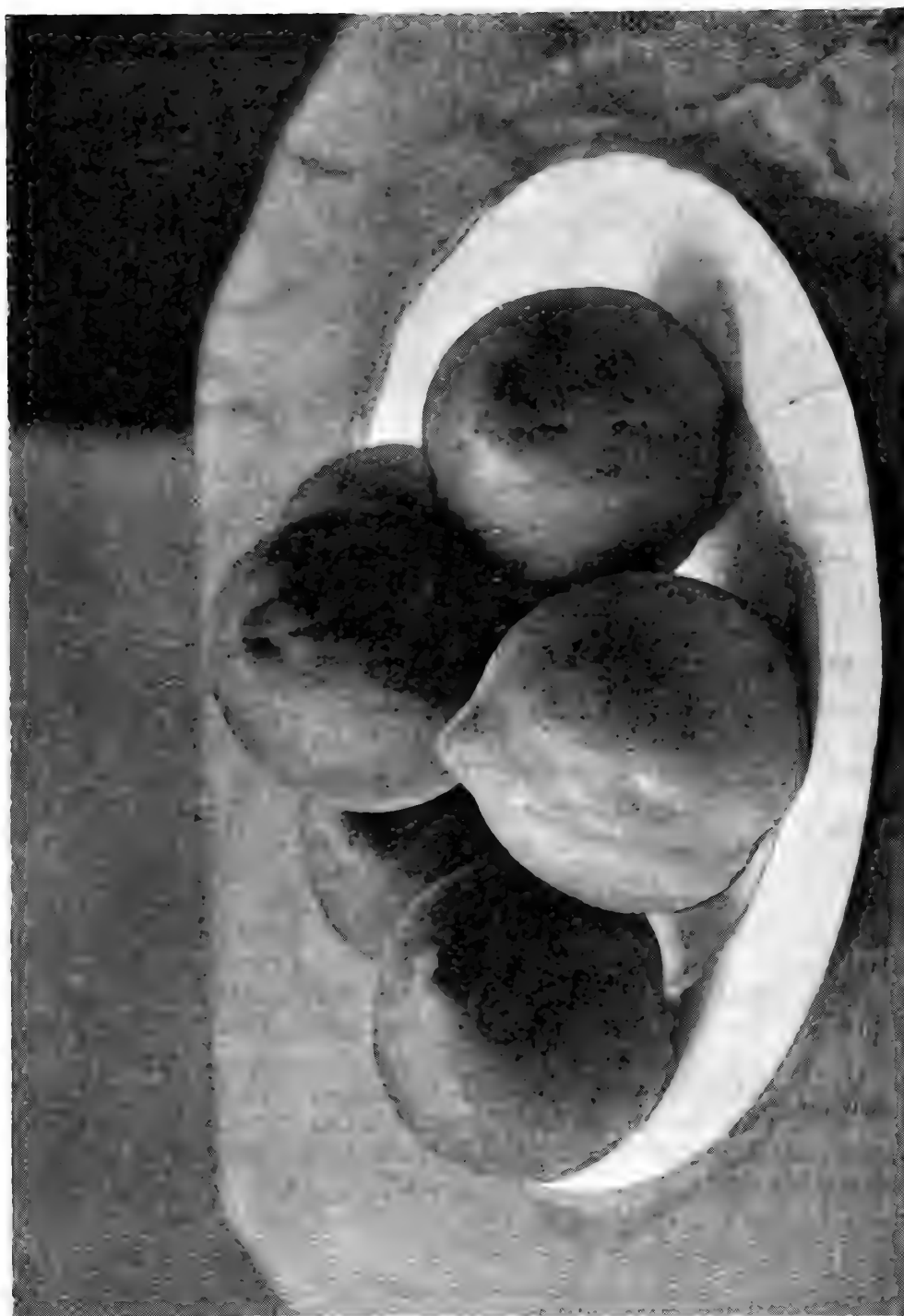
Winter Safrana This old and well-known variety we have taken into stock, as we find many farmers scattered through South Africa wish to plant it. We recommend it as a Home Orchard general utility pear. Stores several months.

Peaches.

FREESTONES.

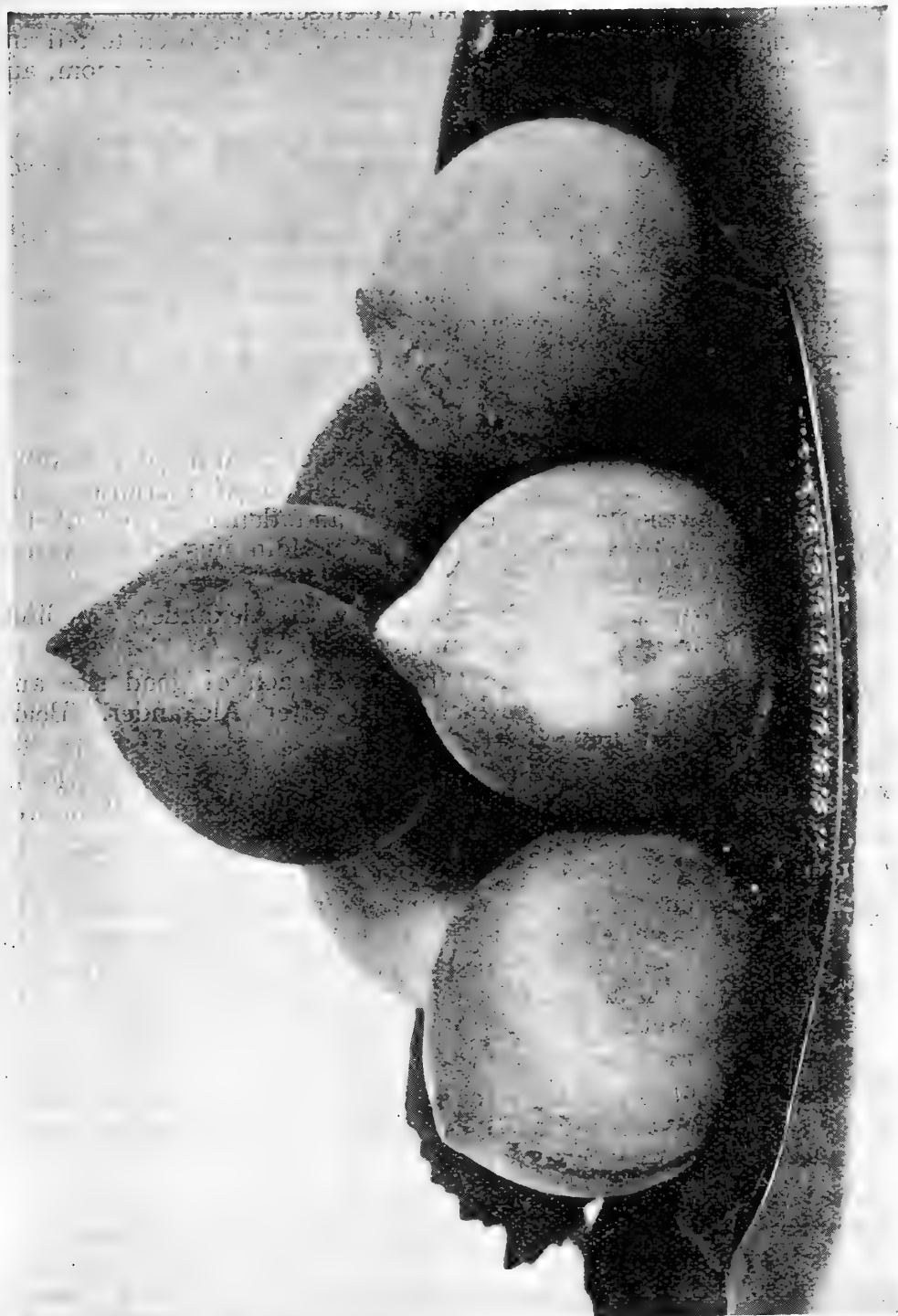
Angel A Chinese variety, large, roundish, slightly pointed, skin yellow, highly washed with red, flesh white, melting, juicy. Blooms later than Peento.

Belle Baucé Highly coloured, large fruit, of best quality. Mid season.



CRIMSON GALANDE PEACHES.

FOR PRICES SEE PAGES 14 and 15.



ELBERTA PEACHES.

This variety grows and bears very well over most of the Union, except the Low Veld areas—is popular in Union Markets, excellent for drying, and is in growing favour in the British Markets.

FOR PRICES SEE PAGES 14 and 15.

***Brigg's Red May** A Californian Early. Size medium to large. White skin with red cheek. Flesh greenish-white, melting, juicy, firm and delicious. Good shipper. Stone partially free. A standard early.

Brook This is a chance yellow flesh seedling raised by Mr. A. T. Brook on his orchard at Silverton, near Pretoria. It closely resembles "Foster," and may have originated from a pit of that variety. It has been tested and propagated by the Horticultural Experimental Station at Potchefstroom, and is recommended for planting in the middle or bushveld districts.

Constantia A selected old Cape variety of first-rate quality, appearance and flavour, especially suited to the export trade. A mid-season variety, ripe in January.

Crimson Galande Fruit large, roundish. Skin almost entirely covered with dark crimson, nearly black. Flesh very tender and melting, very much stained with red at the stone, from which it separates freely. A very excellent peach. Tree a free grower. Mid-season.

Dagmar Large; melting and rich. Skin very downy and of a deep crimson, very handsome. This is a seedling from the Early Albert peach; glands kidney-shaped, flowers small.

Dr. Hogg A delicious and well-known English peach of great merit. Medium size; skin thin but tough; yellow, dotted with crimson, and red cheek. Flesh yellowish-white, melting, rich and delicious, red at the stone, from which it parts freely. A good shipper. Maintains its reputation here. Mid-season.

***Duchess of Cornwall** An early peach, ripening with Alexander. Medium size. Grows well and bears freely.

***Duke of York** A good highly-coloured freestone peach of good size and excellent flavour. Ripens just after Alexander. Bears well. Highly recommended for export.

Early Alexander Fruit greenish-white, nearly covered with red. Flesh firm, juicy, partially freestone. Ships well. Maintains its reputation here. A standard early. Does well generally throughout South Africa, except in the Low Veld; needs a sheltered spot.

***Early Crawford** A peach of New Jersey origin, planted more than any other variety in California. Very large. Skin yellow with red cheek. Flesh yellow, rich and excellent. A perfect freestone. Healthy and productive bearer. Well adapted for market and for canning. Splendid or drying. Uncertain bearer in Africa. Mid-season.

Early Rivers An early English peach, highly esteemed in Australia, and maintains its reputation here. Fruit large, roundish; skin pale yellow; blush on the sunny side. Flesh pale to the stone, tender, juicy, rich. Too tender for export. Heavy bearer.

***Elberta** Fruit large, yellow, with red cheek, freestone. Flesh yellowish, highly flavoured and juicy. A mid-season variety, free growing and healthy; of very great repute in America. Has done well here. Our best yellow. Mid-season. Is a general favourite throughout this country. Bears well, and suited for canning, drying and export, and is gaining in popularity in England, and well liked in Brazil.

Florida Crawford Mid-season variety. Large, roundish oblong; light yellow with red cheek. Flesh yellow, melting, juicy, with rich flavour. Quality excellent. Is reported to succeed excellently in the Transvaal, and is one of the few varieties which succeed on the Low Veld.

***Foster** An Eastern American peach, widely grown and much esteemed in California. Very large. Colour deep orange, red on sunny side. Flesh yellow, very rich and juicy. Ripens a week before Early Crawford. Very good for drying, and good for market. Uncertain bearer here. Mid-season.

Gladstone Fruit very large, roundish, and depressed at crown. Skin pale mottled red cheek. Flesh white, very tender, melting, juicy, and freely separating from the stone. Very free grower. A very late peach of Mr. Rivers' raising. One of the best late peaches here.

***High's Early Canada** An early freestone. Skin whitish-yellow, marbled with red on the sunny side. Flesh white, juicy, melting, medium size. Ripens in December. Good for export.

Improved Waldo Said to be an improvement on the Waldo described elsewhere.

Inkoos Raised by Mr. H. O. Arton of Drakenstein. This new variety is at present the earliest of the standard Export varieties. It is of good flavour and appearance, and ships well, and is highly recommended by us.

Killiekrankie Chinese strain of good size and quality. Ripens end of October. Strongly recommended for tropical areas.

***Late Crawford** Of similar origin to Early Crawford. Very large, roundish, yellow, with dark red cheek. Flesh yellow; flavour rich and excellent. Suitable for market and drying.

Le Vainqueur (Victor) Large creamy white, with blush cheek; flesh tender, juicy, melting, and delicious; freestone; ripens before the Early Alexander. Suitable for export and popular as an early in Union markets.

Mamie Ross Tree vigorous, upright grower, regular bearer; flesh white, semi-cling, of extra large size and good flavour; ripens first week in January. Unsuitable for export but valuable for local markets.

***Mary's Choice** An American variety, popular in California, large, yellow with a red cheek resembling an Early Crawford, but ripening a little later. Suited for markets and canning, and excellent for drying. Is doing very well here. Mid-season.

Mayflower. Of French origin, ripens early—14 days before Early Alexander. Fruit of fair size, shape and quality, and of high colour. Semi-cling. Has not yet been largely planted. Well worth testing, especially in early districts.

Mountain Rose A second early peach, of good flavour and quality and fair colour. Ripens after Early Alexander, and is very desirable as a follower of the very earlys. Has proved satisfactory in Africa.

***Muir** A Californian seedling of great excellence, suited for shipping, canning and drying, but excelling in the latter field, where it yields a heavier percentage of dried fruit to fresh of any known variety, viz., 1 lb. of dried fruit to less than 5 lbs. of fresh. If grown on rich soil the fruit will be large to very large. Flesh yellow, very dense and sweet. A free bearer. A perfect freestone. Does well in the Western Province and on the High Veld. Mid-season.

Nectarine Peach An English variety which has proved quite satisfactory in South Africa. Fruit of good size and high colour; skin very smooth, exactly resembling a nectarine; flesh richly-flavoured, juicy, red near stone. Ripens during February.

***Newhall** A Californian, very large; skin yellow, deep red cheek. Flesh yellow, juicy, rich vinous flavour. Ripens one week ahead of Late Crawford. Tree healthy and vigorous. Maintains its reputation here. Latish.

Oklahoma Queen Ripens early December. Of good size and appearance. Complete freestone. Of Chinese strain.

Pallas A Chinese variety. Good size, nearly round; deep red, dotted with salmon, and tipped with light yellow at the base and apex; flesh white, fine-grained, melting, with a rich vinous aroma; excellent; free. Early.

Peento Flat peach of China. The pioneer of this strain of peach, and delicious in quality if well grown. Ripens very early. Succeeds well in the warmer parts of the Transvaal and other sub-tropical areas. Is of poor quality.



Another view of the pre-cooling plant showing airlocks for receiving fruit trays.

***Peregrine** Raised by Mr. Rivers. An early mid-season variety, distinguished by its good constitution and productiveness. The fruits are large and handsome, with a brilliant crimson skin; the flesh rich, highly flavoured, and parting readily from the stone. Excellent for export, and in fact a standard export sort.

Pucelle de Malines A very fine late mid-season peach, bringing high prices on the London Market. Fruit fairly large and round. Skin well coloured on the sun side. Flesh melting, luscious and delicious perfume. Very valuable for export.

Rimer This splendid peach has been grown for many years by Mr. J. C. Rimer, of Kelvin Grove, Newlands. A most excellent mid-season freestone. It appears to be an old Cape variety almost identical with the Schoongezicht.

***Salway** An English variety, highly esteemed in California, where it is the standard late peach. Fruit large, roundish; skin yellow, rich crimson cheek. Flesh deep yellow, red at the stone. Adapted for both market and drying. Very late. Good where the area is free from fly.

Sea Eagle A large greeny-white peach, taking fair colour, and distinctly pointed in shape; medium late; of good quality, so far as has been tested here. Late.

Schoongezicht The late Mr. Merriman's selected export peach, an old Cape variety of delicious flavour, good size and high colour; a good and regular bearer, and very much esteemed in London.

Shackleford A Chinese variety. Ripens early, and highly recommended for sub-tropical parts.

Thomas Rivers A large round peach with bright red cheek. Flesh firm, juicy and of good flavour. Freestone. Late.

Waldo An early Chinese peach, supposed to be a hybrid of Peento and Honey. Medium size, handsome and best quality, freestone. Ripens with Peento.

Waterloo Fruit above medium size, roundish. Skin with light red cheek, mottled, darker red side next sun. Flesh pale, with greenish tinge where shaded. Adhering slightly to stone. Melting, juicy, and rich flavoured; very early, ripens same time as Early Alexander. Good for export

CLINGSTONES.

(All unsuitable for export.)

***George's Late Cling** Large, white flesh, yellowish-green with highly coloured bright red cheek. Good for markets and heavy bearer. Maintains its reputation here. Middle March.

Goodman's Choice Yellow fleshed clingstone; good bearer. Highly recommended for canning.

***Lemon Cling** Large, oblong, having a pronounced lemon-shaped point. Skin clear yellow. Flesh firm, yellow, and full flavoured. The best canning peach. Maintains its reputation here.

Pullar's Cling Very large, highly coloured, clingstone. Good bearer and grower. Preferred by the Canning Factories to all other clingstones.

***Seller's Golden Cling** Very large and handsome, yellow skin, taking red to bright red on the sunny side. Flesh yellow, firm and sweet and full-flavoured. A splendid canning peach; as a market fruit will sell on its size and appearance. Late mid-season.

Tuscan Cling Very large. Yellow flesh. The best early canning peach. Ripens mid-season.

Van Rensburg The latest of all peaches. Ripens April to May and remains more than a month on tree after ripening. Flesh yellow and rather tough. Size equal to that of other yellow peaches. Clingstone.

White Parvie The well-known old Cape variety; excellent for canning.

Chinese Peaches.

N.B.—Intending planters of the Chinese varieties of Peaches will please note that the sap begins to rise in all these varieties very early in the spring, and there is, therefore, a risk in planting them after mid-July. It is highly desirable, if best results are to be expected, to get them into the ground on or before that date. Our Chinese varieties consist of the following sorts: Angel, Improved Waldo, Killiekrankie, Pallas, Peento, Shackleford and Waldo. The Florida Crawford and that excellent peach the Mamie Ross have also a Chinese strain, but these do not require extra early planting.

Nectarines.

- Albert** An English variety; large size; roundish, oval; skin pale cream with carmine blush. Stores well; ripens middle of February.
- De Couse** An American variety, of large size and high colour; medium season; bears very satisfactorily throughout the country, when planted in sheltered spots.
- *Early Rivers** A well-known English variety, and a great success in this country. Fruit very handsome, dark violet-red in colour, and very large in size. Ripens early January. The leading early variety for export.
- Goldmine** A New Zealand variety, Fruit of large size, fine flavour, juicy, melting, perfect freestone; colour, bronzy red; ripens two weeks after Early Rivers. A success in Africa. Very good for export.
- Newton** Very large, rich flavour, fine colour. A fine exhibition variety; late.
- Stanwick** Fruit large, roundish, oval. Skin, lively green where shaded, purple red where exposed to sun. Flesh white, melting, rich, sugary, and most delicious. One of the most popular later varieties exported home from here.
- Victoria** Fruit large, roundish, oval. Skin pale green and purplish-red on the sunny side. Flesh white, melting, rich, juicy, delicious. Very excellent variety. February.

Apricots.

- *Blenheim** An English variety, in good repute wherever grown. Fruit a good size. Tree a vigorous grower, with abundant thick foliage. Is suitable both for canning and drying. Has also proved one of the best in Australia as a regular bearing variety, yielding a superior dried product. The bearing habits of this variety are fully maintained in Africa, both East and West. Also good for export when thinned.
- Early Cape** This is propagated from selected trees of the well-known Western Province variety, and it needs no recommendation, fetching—always being amongst the first in the market—a most excellent price.
- Moorpark** The best and largest of apricots when a crop can be secured. Unsurpassed for canning, but cannot be strongly recommended for commercial plantations, as it has been widely discarded owing to its uncertain bearing. Should be tried undoubtedly. Does very well, however, in the Transvaal and Natal. The best apricot for export when thinned.

Old Cape A selected strain of the best of the Wellington varieties. Mid-season. Good for all purposes. The favourite for jam making. Heavy and regular cropper.

***Royal** This is a highly esteemed fruit of French origin, and is maintaining its reputation wherever grown. It is one of the most widely popular apricots in Africa, being a steady and abundant bearer, and healthy and vigorous grower; the fruit hanging well on the tree, foliage perhaps not so dense as the Blenheim. The fruit yields a first-class canned or dried product. This variety has thoroughly maintained its reputation here wherever planted, and is the favourite for drying. Good for export when thinned.

***Tilton** A variety imported by us, which has been tested and is highly approved by us. We consider it well worth planting on a commercial scale. Is apparently rather late, of good size, high colour, and excellent flavour, and has proved itself here a regular and heavy cropper. Excellent for canning and drying. Also suitable for export when thinned.

Domestic Plums.

Coe's Golden Drop Fruit very large, being generally about two and a half inches long and two inches in diameter, oval. Flesh yellowish-red, sugary and delicious, one of the most delicious dessert plums, and a good shipper.

Czar Fruit large, oval, roundish. Skin dull red to quite black when well ripened, covered with blue bloom. Flesh tender, sweet, juicy, separating freely from the stone. A very valuable cooking plum. Tree a free grower and abundant bearer. January—February.

Damask A handsome, oval, purplish plum of the largest size, covered with blue bloom. Flesh yellowish, juicy, sweet, delicious. Has a great local reputation. A free grower and good bearer.

Diamond English. Branches long. Fruit of the largest size. Skin black, covered with blue bloom. Flesh deep yellow, coarse-grained. Freestone. A heavy cropper. February.

Early Golden Drop This is the well-known and very popular early yellow cherry plum; is valuable for market on account of its earliness, and is much sought after by jam manufacturers on account of its excellent qualities for that purpose.

Greengage It is hardly necessary to describe this plum; of good repute in every country, and fairly well suited to the several conditions of Africa, although not sufficiently so to recommend commercial planting.

Hahn's D'Almagne A mid-season, dark purple plum of large size, and excellent flavour, a good bearer. Tree a medium grower.

***Pond's Seedling** A very valuable English variety. Fruit very large, oval. Skin dark red, thickly strewed with grey dots, covered with bluish bloom. Flesh yellowish, juicy, briskly flavoured, adhering to the stone. A beautiful plum. February and March.

Pride of England This is a variety of European plum, which has been in this country for many years, and it is one of the few of this class which appear to thrive in nearly all parts. Fruit medium size to large, flesh greenish to yellow, most juicy and of excellent flavour. Skin dark purple. Freestone. Ripens at New Year, sometimes earlier. Tree free growing and good bearer.

***Reid's Late Gem** A valuable late plum originating in New Zealand. A very late and moderate grower. Bears heavily here and can be recommended.

Rivers' Early Prolific Purple, oval, medium size, juicy, and good freestone. A free grower, healthy, and a heavy bearer. Maintains its reputation where fruited here. Will ripen in January and February. One of the best cooking plums.

Rivers' Late Prolific A seedling of Early Prolific, with the same characteristics, but ripens three weeks later.

Japanese and Oriental Plums.

The Japanese plums have proved adaptable for all purposes for which the Domestic plum has been used ; and throughout our country, with scarcely an exception, they have been found to thrive and bear with remarkable success. There are no varieties of the Domestic Plum which, under the circumstances, are likely to prove so profitable. Orchardists are therefore advised to plant the latter with caution, and on a very limited scale.

***Abundance** Medium in size, varying in shape from round to pointed. Colour rich yellow, splashed and dotted red on the sunny side ; in some cases almost completely coloured red. Flesh deep yellow, juicy, sweet, and of good quality. A strong growing, upright tree, and bearing as its name implies. Early mid-season. One week ahead of Burbank in ripening. An early bloomer.

***Apex** A very early, large, roundish, yellow plum, with beautiful red blush, and with delicate aromatic flavour. A good grower, but rather a shy bearer. Has fetched very high prices in London. Well worth a trial in early parts.

***Apple** One of Burbank's varieties, and one of considerable value. Has been well tested here, and is recommended for export only. Fruit large, roundish, and of the blood class, like Satsuma. Delicious flavour. Needs very careful handling and careful thinning. The highest priced plum exported to Europe. February.

Beauty This is a newer variety and the earliest shipper of all the Japanese plums, and is well worth planting to obtain the best sequence in ripening, although it appears to be an irregular bearer.

***Burbank** A very excellent variety, and highly popular. Fruit nearly round, and clear cherry red, with a lilac bloom. Flesh deep yellow, very sweet, with a peculiar and most agreeable flavour. Tree vigorous and an enormous cropper. Excellent for local markets, jam-making or canning. Mid-season. A late bloomer.

***Chalcot** One of Burbank's varieties. In every respect a delicious plum. Large size, roundish and flat; colour, beautiful bright crimson; should be allowed to ripen on the tree to secure best flavour. Ripens just ahead of Kelsey. Good for export.

***Formosa.** An extra large, very early plum. Tree a strong grower, but a shy bearer. This plum is well worth planting on early sites on all farms carrying a full line of plums for export. Ripens well before Santa Rosa.

***Gaviota** A mid-season plum of good size, pointed in shape and of beautiful appearance. A steady, regular bearer. Quality good. Ripens between Wickson and Kelsey. Highly recommended for export.

Kelsey The latest of all the Japs, and the largest. Fruit heart-shaped. Colour rich yellow, nearly overspread with red, and a lovely bloom. Flesh firm, very rich, and excellent quality. Tree a free grower, but not stocky. Long willowy shoots. Excellent for market and export. Widely tested here, and has given uniform satisfaction, its fruit having been frequently exhibited in public. An early bloomer. The best Japanese plum for drying.

Methley Originated in Natal by Mr. W. L. Methley, of Balgowan : Fruit small, almost globular, rich dark red in colour, with purple bloom, flesh dark red, melting and delicious; ripens very early, hence an excellent market variety, and, if very early, pays well to export, but must be heavily thinned. Also suitable for jam.

***October Purple** An Australian variety very popular there, which appears to thrive well in this country. Ripens before the Kelsey. Yellow flesh. Fruit medium to large; skin very pretty, partially coloured red. Tree a strong healthy grower.

Santa Rosa It is a fine grower, a sure and regular bearer. It does not have any off years. The fruit runs remarkably fine, even in size, and astonishingly smooth and clear of any defects. It is beautiful, delicious, and a very fine carrier to South African and European markets. It will keep well in hot weather for a week after it is ripe, so there is no occasion to pick it half ripe in order to ship. Ripens in December and early January. Strongly recommended for export.

**Satsuma
(Blood Plum)** Fruit of large size and nearly round. Skin dark red with a red bloom. Flesh dark purplish-red. Stone very small and pointed. An excellent market and canning plum, and the tree a free and hardy grower and great cropper.

***Shiro Smomo** Large, bright yellow, of the greengage type. Tree healthy and vigorous grower and heavy bearer. Very excellent and satisfactory in every respect. Unsuitable for export. January.

***Sultan** A variety imported by us. A strong free grower and regular and heavy bearer. Is of the Satsuma or Blood type. Fruit of large size and slightly elongated in shape. Must be most carefully handled. Risky to export.

***Wickson** One of Burbank's productions, a strong, upright grower and heavy, but irregular bearer. Ripens about mid-season. Fruit of the largest size, heart-shaped; colour a whitish-green, but colours up a rich

red when ripe ; can be picked nearly green, and will take full colour ; keeps two weeks or more. Very popular in Africa. A popular export variety.

Prunes.

***California D'Agen** This is the genuine French prune of commerce, which holds many thousands of people on the land of France, Bulgaria, Bosnia, Herzegovina, and also in California, where the industry of drying prunes has assumed immense proportions. Introduced by Mr. H. E. V. Pickstone in 1892, and pushed into extensive planting in the Western Province, and some years ago was looked upon as a failure almost everywhere, and many thousands of trees were grubbed out by farmers. Will, we think, prove a success in the North-Eastern parts of the Cape Province and the Eastern area of the Orange Free State. Bears well along the Rand. Further description in our "Hints on Fruit Growing." Many growers in the Western Province realise from 5s. to 15s. per tree from their crop, dependent on the season. Is also very suitable for export and brings good prices if carefully packed.

***Fellenberg** Medium size, oval, pointed at both ends, dark purple with blue bloom, juicy, sweet, and parts freely from the stone. A vigorous and spreading grower, taking naturally a good shape, an excellent and steady bearer, where tried here ; suitable for market and drying, and also for export ; slightly more acid than Prune D'Agen. This is the commercial prune of Oregon.

***Sugar** One of Luther Burbank's productions specially imported by us a number of years ago. Fruit large and of high quality. Is doing very well in certain districts and is well worthy of general trial.

Cherries.

***Bing** A new variety in South Africa ; originated in Oregon. Is of very large size, dark red to black when ripe, and reddish flesh. We believe its value will prove to be its lateness and carrying qualities, it being remarkably firm in texture.

***Black Biggareau** Strong upright grower. Fruit large, colour dark red to black. Ripens when Black Tartarian are finished, and is very similar in appearance. Ripens November 15 to December 1st.

***Black Tartarian** Upright growth. Fruit large, colour dark red to black, flesh tender, very juicy, flavour sweet. Ripens October 25th to November 4th—November 24th. Favourite on market—always realises top prices. Strongly recommended.

***Early Rivers** Tree spreading vigorous. Blossom usually taken by frost. Blossoms 5 or 6 days before other varieties. Fruit, medium sized, brilliant red colour, rather tart, flesh very soft and juicy, heavy bearer. Ripens October 26th—November 4th.

Elton An early mid-season variety. Fruit of very good flavour and size, but is on the soft side, and not good for commercial planting. Should be ripe end of October and early November.

Emperor Francis Spreading growth, vigorous, fruit good size, colour bright red to yellow, mostly red. Flesh firm, flavour sweet. Strongly recommended. Ripens October 29th to November 4th—November 26th.

***Giant Heidelfinger** Spreading, vigorous. Fruit very large, colour dark red to black. Flesh firm ; flavour sweet. Also good seller and top prices. Ripens November 24th—December 7th. Strongly recommended.

***Governor Wood** Spreading growth, vigorous. Very prolific. Fruit medium to small, colour yellow to bright red. Flesh tender, juicy, sweet. Nice flavour but poor seller on account of size. Ripens October 25th to November 5th—November 24th.

Kentish Fruit small, round, red, changing to purple if allowed to hang. A good cooking cherry. A free grower and abundant bearer.

Monstreuse de Mezel Very spreading growth, vigorous. Fruit good size ; colour bright red to yellow, flesh firm, flavour sweet. Closely resembles Napoleon Biggareau but for difference in flavour. Ripens November 2nd to November 9th—December 2nd. Strongly recommended.

Morello Thin willowy growth. Blossoms very late. Fruit good size, colour dark red, flesh soft and juicy ; flavour very tart. Ripens December 2nd — December 15th. Fine canning and cooking cherry and the only variety known suitable for making Cherry Brandy.

***Napoleon Biggareau** Very spreading growth, vigorous. Fruit very large ; colour yellow with red blush, flesh very firm, flavour tart. Ships well. Ripens November 2nd to November 9th—December 2nd. A popular favourite on the market. Strongly recommended.

Almonds.

Brand's Jordan A special strain of the famous Jordan variety, yielding the highest priced nuts in the world's markets. Very similar in growth, but it is a soft shell nut.

Britz Claimed to be the most profitable Almond to grow. Hardy and heavy bearer. Said to be self fertile.

Drake's Seedling This variety was originated on the grounds of Mr. Drake of California. The tree is a strong grower and heavy bearer. One reason for its heavy bearing is the fact that it is very late in blooming, consequently is more free from frost than any other variety. The tree, while being a strong grower and very healthy, does not grow as large as some of the other varieties. A point making this variety very desirable is that it produces at an early age. The nut is of medium size and roundish in shape. The shell is medium soft and white, bearing a short, plump kernel of good colour. Doubles are often found in this variety, but this is more than offset by its good flavour and its heavy bearing qualities.

***I.X.L.** Tree strong, upright grower, with long leaves ; nuts large ; hulls easily ; soft shell ; bears reasonably well.

***Jordan** The most celebrated almond of commerce, and far and away the largest. One of our later importations, which should be tried by everybody who wants to grow almonds. Will assist cross fertilisation with other varieties.

Ne Plus Ultra This almond was introduced by Mr. A. T. Hatch of California, and is a regular and heavy bearer. The tree is a strong grower and inclined to have a drooping habit. It presents a very fine appearance on account of its large foliage. The nut is long and narrow in shape and has a soft shell. The kernel is very large, sweet and highly flavoured. Hulls freely and is considered a favourite among almond growers for commercial purposes.

***Nonpareil** Tree is of a spreading style of growth carrying a medium size soft-shell nut of very good quality. This variety is one of the most regular bearers in South Africa and a proportion should be included in every planting of almonds.

***Paper Shell** Of a weeping style of growth ; smaller foliage than I.X.L. ; bears well, and is a very thin-shell nut, though smaller than the previous variety.

Texas Prolific This is one of the popular varieties of almonds grown in California. The tree is equal to that of Drake's Seedling for its heavy bearing qualities but grows much larger. It is of an upright habit, having a smooth wood and a fine foliage. It is a late bloomer, consequently is almost sure to escape damage from late frosts. The nut is of medium size, having a soft shell which is white in colour. The kernel is short, plump and very sweet.

All these varieties can be recommended with confidence. They are bearing heavily and satisfactorily in some parts of South Africa, where the ordinary hard-shell almond never sets its nuts. We recommend them with confidence in South-Western Coast Districts, and strongly advise full experiments with them throughout the country. The nuts are in heavy demand at satisfactory prices.

All varieties of almonds should be planted alternate rows of each sort, as they need thorough cross fertilisation, and if they do not get it will give a failure of crop.

Mulberries, Walnuts and Loquats.

We have a small stock of all the above this season. Prices will be **3/-** each 1st size, and **2/-** each 2nd size.

FOR PRICES SEE PAGES 14 and 15.

Quinces.

- Borrie.** Exceptionally soft flesh, and completely yellow. An old favourite in South Africa.
- Cape Selected** A South African variety selected by ourselves.
- *Meeches' Prolific** Large pyriform, golden yellow; very fragrant, good flavour. Bears early. Very productive.
- *Orange** Large, roundish, somewhat irregular, surface fine, golden colour, flesh firm, flavour excellent, productive.
- *Portugal** Fruit large, oblong pyriform, flesh yellow, juicy, and less harsh than several varieties. In every respect a fine fruit; not, however, a very heavy bearer.
- *Rae's Mammoth** Fruit resembles the "Orange," but larger; of excellent quality. Tree a strong grower.
- *Van Dieman** Above medium size; oval in shape, greenish-yellow in colour and sub-acid. Bears well.

Figs.

- Adam** Well known throughout South Africa. Tree a free grower and regular heavy bearer.
- Calimyrna** Commonly called Smyrna. Fruit medium to very large, slightly flattened; skin very thin; colour light pear green when immature, fading to a delicate light yellow when ripe. Stem short. Pulp pink when unripe, deepening when the fruit ripens to dark amber. Sweet and luscious, and unequalled for drying purposes.
- Capri** The Wild Fig used as a host for the Blastophaga, the insect necessary to fertilize the Smyrna Fig for commerce. This variety is worthless as a fruit-bearing sort.
- Castle Kennedy** Fruit large and early; an excellent variety. Skin pale brown, slightly mottled with grey. Flesh pale, slightly stained red towards centre; sweet and well flavoured. Tree is hardy and vigorous. An excellent bearer.
- Eva** An old Dutch sort.
- Negro Largo** Fruit of the largest size—long, pyriform. Skin jet black, marked with longitudinal ribs. Flesh pale red, with rich, thick, highly flavoured juice. One of the best figs.

New Brunswick Very large and pyriform. Skin greenish yellow in the shade, tinged with pale brown on the other side. Flesh opaline, tinged with very pale flesh-colour towards the centre. A very rich and excellent fig. Very hardy.

Old Cape White The well-known old Cape variety. Fruit small, roundish flat. Skin pale green, flesh light yellowish brown. The best for jam, and quite suitable for drying. Flavour delicious.

Tiger Fruit medium in size. Striped green and yellow. Tree vigorous and prolific.

White Adriatic Fruit above medium, roundish. Skin very thin; greenish in shade, turning to greenish yellow when ripe. Pulp strawberry red or white with violet-coloured streaks. Hardy, robust and prolific.

White Genoa Fruit above medium, roundish; stalk short. Skin pale greenish brown. Flesh pale, red, sweet and highly flavoured. An excellent variety.

TRANSPLANTING FIGS.

It has been found that the Fig is not so easily transplanted as other deciduous trees and we have had general complaints on this score. It appears from the following paragraph, which we have extracted from an American publication, that the same trouble is experienced in America :—

“ The Fig will give best results in a dry and rich location. Fertilise liberally with ashes or potash to avoid attack of the root-knot. **In transplanting see that sufficient top and roots are pruned ; the top should be cut almost to the ground (leave six inches or a foot of stem), and the fibrous roots shortened-in closely.** Treated in this way it will invariably grow off well. In the South, and especially in Florida, it is impossible to grow Fig trees successfully in large orchards with ordinary culture. The roots are very impatient to cutting and apt to scald during hot, wet weather. Mulching with stones and heavy rubbish, or planting in close proximity to a shed or stone heap will bring success.”

We may say from our own personal experience, we believe that if the advice given above was carried out the result would be highly satisfactory, **though we do not go so far as to recommend it for parts of the country where the Fig is thoroughly at home.** This system is simply to treat the Fig at transplanting, just as is almost invariably done with the vine.

The White Adriatic and White Genoa are the best varieties for commercial purposes and can be thoroughly recommended for extensive planting. Very strong and healthy growers.

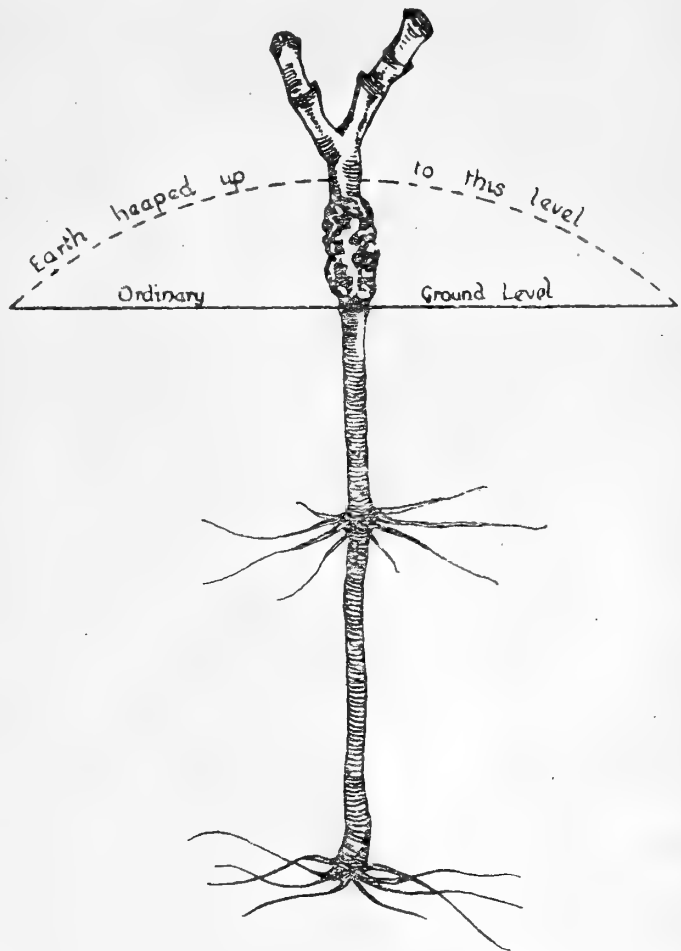
The White Adriatic can be specially recommended for drying, in districts suitable for this industry.

Planters must note that in some varieties Fig trees do not attain the same height as other deciduous trees, being, like walnuts, of thicker and more stunted growth, and we do not guarantee our Fig trees to be the standard heights of our price list.

VINES.

We occasionally receive complaints as to dying of vines supplied by us. We must tell our clients that it is often through their ignorance of how to plant grafted vines correctly that leads to this unfortunate result.

We consider the matter of sufficient importance to have the accompanying sketch made, showing exactly how they must be planted. As you will see, they must be earthed up to within two or three inches of the point where they should be cut back. This is about six inches above the graft. This must be done **directly** after planting and should be removed say 2 or 3 months later and any roots being thrown out above the graft must then be cut off, the soil being again heaped up against the stem. This soil can permanently be removed the winter following. Where irrigation is necessary the water should be led around the mound of soil; there is no need to remove it during irrigation.



List of Varieties.

ALL GRAFTED ON SPECIALLY SELECTED PHYLLOXERA
PROOF STOCKS.

- Barbarossa** Black round berry, tough hard skin. Late; good carrier; suitable for export.
- Black Prince** Ripens with Muscadell. Very large berry, but a shy bearer in some districts.
- Crystal** A white round grape; mid-season. Good flavour and popular. Succeeds well in nearly all parts of the country.
- Flaming Tokay.** A very prolific grower which can give good crops when pruned short. The berries are large, and in certain localities are of a beautiful salmon pink to reddish colour. This variety is very susceptible to sun-scorch and anthracnose, and can be recommended only for the coastal areas.

FOR PRICES SEE PAGES 14 and 15.

- Gros Colman** Bunches and berries very large; the most handsome black grape grown. Very good for export.
- Hanepoot Red** A similar grape to the White variety. Not so popular, however.
- Hanepoot White** An oval white Muscat grape. Very late. Superior flavour. Very popular everywhere.
- Hermitage** Medium size to large, oval black berry. Good flavour. Carries well, and is suitable for export.
- Lady Downes Seedling** A round black grape, bunches long and closely set; handsome; good carrier; late.
- Raisin Blanc** Large late white grape. Good flavour and size. One of the most popular market varieties.
- Red Muscadel** Ripens very early; of considerable value as an early market variety.
- Rosaki.** Medium size to large bunches. Berries large, bright yellowish green to golden yellow when fully ripe, oval, hard, skin strong, very sweet without pronounced flavour. Ripens ten to fourteen days before Hanepoot. Carries even better than Hanepoot. Can be strongly recommended both for export and for raisin making. Resembles Waltham Cross very closely indeed.
- Rose Chasselas.** A fine grape. The berries when fully mature are red and appear to be transparent. It is fairly immune against oidium. Keeps well for a fairly long period and travels well. The vine grows fairly strongly and gives good crops when pruned short.
- Waltham Cross** An oval white grape; very late; a good carrier, very large and handsome; keeps well after ripening.
- White Muscadel** One of our best muscat varieties. It gives good crops and grows well when pruned short. The berries mature fairly early—from the end of December. Cannot be recommended for the coastal belt.

CITRUS TREES.

Important Notice.

OUR CITRUS TREES OF ALL VARIETIES ARE WORKED FROM STRAINS PERSONALLY SELECTED BY US IN CALIFORNIA SOME YEARS AGO, AND BUD SELECTION HAS BEEN SYSTEMATICALLY CARRIED OUT.

This Department of our business has very largely extended. Needless to say, it is our aim to keep it up to date in every respect.

All the trees are grown in the Nursery to a single stem, and each tree is trained to a stake, and no expense is spared on them.

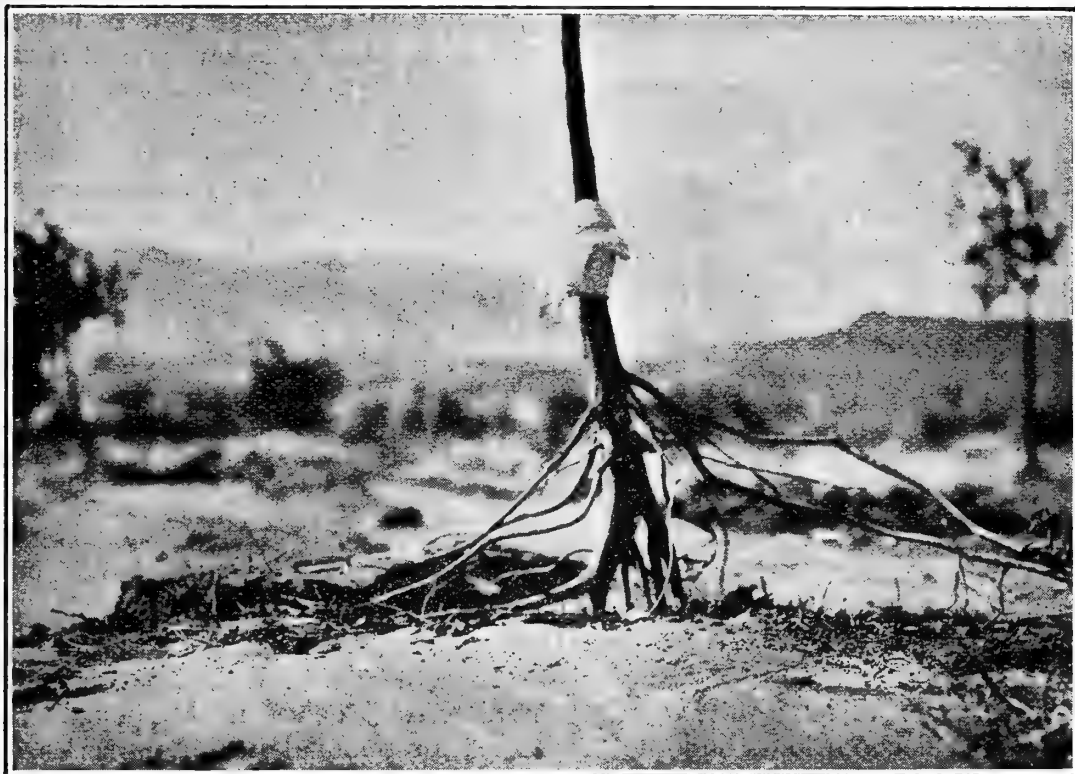
Frequently they are delivered long distances within the Union and also outside its borders with a loss of less than one per cent., and there is absolutely no excuse for a planter not being able to establish with them a successful citrus grove, big or small.

FOR PRICES SEE PAGES 14 and 15.

Best Varieties The varieties of Oranges listed are well known as being the best for commercial planting and general purposes. **Pickstone's Washington Navel** and **Valencia Late** stand first and can be particularly recommended. All the Lemons listed can be relied upon as the best and most satisfactory varieties for African consumption and for export, and they have been thoroughly tested in most parts of the country.

Shipping Seasons The Winter Shipping Season for Citrus trees begins in June and extends till September, and the Summer Shipping Season extends almost continuously throughout the summer from the end of October till the end of March. We may say, however, that our experience shows that the trees are generally in a stage of vigorous growth from time to time during the summer. At such times they should not be dug for railing. We shall use our judgment in regard to exact date of dispatch for summer-delivery, but shall meet our clients' wishes as much as possible.

Size and Grading The Citrus trees—like all the others—are sold by height, which is reckoned from the bud or graft. The grading is liberally done. **If there is any complaint it must be made immediately on arrival of the trees, otherwise it is impossible to rectify same.** All trees are



This three-year-old tree is an illustration of the folly of planting citrus trees on hillside areas without terracing. Note the amount of erosion, the result of irrigating on a slope. Such trees are, of course, worthless for profit-making.

fumigated as provided by the Government regulations before leaving the Nursery, and special care is taken that the fumes of the gas do not come into contact with the roots.

Our stock this season comprises as usual about 80,000 saleable trees, thoroughly free from disease and sound and healthy.

FOR PRICES SEE PAGES 14 and 15.

Packing We have been at particular pains to make this a success. Having personally studied the various methods practised by the best growers in America and Australia, we have evolved our own process from the knowledge thus acquired, and we think it will not be questioned that the particular method we now adopt is an improvement upon others. We are constantly shipping trees packed in our special manner to distant parts of this continent, including Uganda, British East Africa, and to many places north of the Zambesi, with great success. There are instances where the contents of the cases have lost their leaves, and by the time the consignment has reached its destination, fresh and healthy ones have grown out.

Treatment of Citrus Trees on Arrival First of all it should be understood that extreme care is essential in the handling of Citrus trees.

To transplant a Citrus tree is almost like transplanting an apple tree in full foliage; therefore the bare roots should not be exposed to the winds and sun for a **single moment**.

Immediately upon receipt of the consignment it is well to apply a little water to both tops and roots, care being taken that there is a hole at the bottom of tin or case for such water to drain off. Then the case should be removed into the shade—a cool barn or some other cool building is best. In the event of the ground not being ready to begin planting, the case had best be left in the building untouched. The trees would keep thus for a few days if occasionally watered. It is never advisable to unpack the cases and heel in, as we recommended to be done in the instance of deciduous trees. Neither is it advisable to bury or put the trees into water in the event of their arriving dry and shrivelled. If by chance they arrive in this dry condition the leaves will in all probability fall off, but this will not affect the health of the tree or the successful transplanting of it. As long as the wood remains green and sound the tree is alive and well.

Possibility of Loss Though Deciduous trees can be planted out with little or no loss, it is usually otherwise with citrus trees, and although some people are lucky in getting their grove established with a loss of perhaps only one tree in a hundred, others may quite easily lose as much as twenty per cent. Our experience goes to show that a loss of from five to ten per cent. may be calculated upon.

Time to Plant. We have frequent enquiries from clients as to when is the best time to plant Citrus trees, and we wish to point out that this class of tree can be planted out **whenever it is dormant**, in fact, we can supply them almost all the year round.

Any time from June 1st to September 15th and from October 20th to March 31st is a suitable time to plant Citrus trees; the exact date dependent on your local conditions, and the conditions for removal in our nurseries.

In giving instructions for date of despatch of citrus trees, in the summer season particularly, it should be endeavoured, where possible, not to tie us down to an exact date, as the day, owing to climatic conditions, might be an unsuitable one for digging and packing trees.

It would be wise also when planting out to consider weather conditions. It is much better not to plant in the heat of the day or when a dry hot wind is blowing. Remember there is no great urgency about removing trees from the case, and much rather leave them under cover unpacked than plant when the conditions are unsuitable. Early morning or evening is the preferable time to plant.

Planting Out of Citrus Trees

A few hints to our customers as to the care necessary in the planting of Citrus trees will not be out of place. A successful plantation should be assured in any part of South Africa if these instructions are carried out.

If the holes are dug (and it should be recognised as a necessity by planters that they are already dug on receipt of the trees) plant the trees at once, *e.g.*, taking them from the case one by one as they may be required. Then **immediately** give each tree two or three buckets of water by hollowing out the soil round the stem sufficiently to allow the water to be received into a basin. When all the water has sunk away, and not till then, return the dry soil to the stem. Two or three days later repeat with a couple more buckets of water per tree, and again, as required. In fact, keep the soil moist, but **not wet**, until the young tree is firmly established. There is another important matter which must not be overlooked. **Immediately your trees are planted, have them cut down to, say, 18 inches to 22½ inches, and paint over the cut at once to prevent the**



Young orange trees just planted on a terraced hillside on the property of H. E. V. Pickstone & Bro. Ltd., at Klaver. Perfect irrigation can be done without the slightest soil erosion.

bleeding of the sap. Planters must not accept the height of the trees, the tops of which have already been cut when crated, as the correct height to cut down. Get the stem protected at once. Personally, we find coarse grass tied round with string as good as anything for this purpose. The stem of the tree should be covered with grass or newspaper, and thus absolutely protected from the sun; **vide sketch on next page.**

This shading requires to be left on the tree until a good growth has started, namely, a few branches of about a foot long. If meanwhile young shoots start out lower down the stem under the shading this latter should be removed and the young shoots rubbed off and the shading immediately replaced.

Another excellent plan to shade the tree is to drive in one or two laths of wood, say $\frac{1}{2}$ in. x 3 in., beside the stem of the tree on the side of the early afternoon sun. The lath should stick out from the ground about 18 in., and would also come in as a stake for the tree to prevent it being blown about by the wind, until the roots are established.

Still a simpler plan is being recommended, and probably might answer the purpose: This is to apply to the stem a good coat of whitewash.

Now a last hint: do not put off either of these operations, viz., the watering, the cutting down and painting of the top, and the protection, a single hour after planting. They must be done **at once**. This is the secret of success. Do not wait until the leaves are dropping and the stem is shrivelling, as we see so many planters do, and then perhaps blame the nurseryman.



In this connection we wish to draw attention to the fact that it is a mistake to abandon a tree until it is quite past recovery. Citrus trees are often given up for lost when perfectly good; until the tree becomes dried up and brown right down to the bud it is not dead. As long as there remains some green wood there is an almost certain prospect of young and healthy shoots being thrown out when the next period of growth commences. In Africa, as before stated, such periods of growth occur three or four times during the year. If a tree has been planted just at the termination of one, it may remain standing dormant for some months waiting for the next. It is then that it requires such particular attention, for if neglected the leaves will certainly fall and

the tree dry out to such an extent as will prevent its taking advantage of the growth to come. In cases where this happens, the only thing to do is to cut the tree back to where the wood is green, and to continue attending to the tree until the growing time comes back once more.

In further reference to the cutting back of the head immediately after planting, we may say that if this is not done the difficulties of getting the tree established are very much increased. Many planters seem afraid to cut their Citrus trees back (and their Deciduous trees too), which we consider a great pity; and they will be heavy losers by neglecting to do so.

It is often asked what is the object in paying for a tree three feet high or more when it is to be cut back. We should have thought it would have been perfectly plain that in paying for first size one is getting a thicker and altogether a more vigorous tree; and what may be cut off from root or top in no way affects this, and in any event the more expensive the tree the greater necessity to give it every reasonable chance to grow well.

Deep Planting We again make no excuse for cautioning planters against planting too deep. With Citrus trees it is absolutely fatal sooner or later. They are bound to get collar rot, and, over and above this, they are not only much more subject to the attack of scale insects, but further, it is almost impossible to eradicate scale from trees planted in this manner, because the constitution of the tree is weakened.

We accept no Responsibility for Loss after Trees are Railed

It occasionally happens after Citrus trees have been delivered to the purchaser and planted out, that complaint is received of some having died off or refused to grow; and we are sometimes asked to replace such failures free of charge.

We take this opportunity of stating that under such circumstances as these it is impossible to comply with the purchaser's request.

Much as we desire to assist our clients in every possible way to establish their Citrus plantations, it is out of the question to undertake to do more than to put the trees on rail in good condition, for after that is effected everything connected with them is beyond our control.

We know of frequent instances (usually when the work has been delegated to others) when the precautions recommended by us have been totally or partly omitted. When the trees arrive in good condition, it is possible to plant them out and get them established in the ground with little loss, **provided that they are given the care and attention they demand, and that the weather conditions are fairly favourable.** Unfortunately the planting is sometimes followed by most unfavourable conditions, such as severe frosts and drought in the winter, or in the summer strong scorching winds, and some of the trees are bound to succumb. In ninety-nine cases out of a hundred the loss is through no fault of ours, and is often an inevitable result caused by adverse circumstances, so that although it is a source of great regret to hear when our clients have suffered in this direction, we are forced to place a hard and fast limit to our responsibility.

Cancellation of Orders for Citrus Trees.

Those desirous of cancelling their orders for large lots of Orange, Lemon and Nartje trees, should be most particular to do so early, and must do so **not less than three months before time booked for despatch,** otherwise the order will have to stand. There is a great demand for these trees, and we may be refusing orders, as has often occurred, owing to our stock being booked up as sold; thus if large orders are cancelled, the result is that we have disappointed and inconvenienced clients who were badly wanting the trees.

With Citrus, as with other trees, it often happens, as the season advances, our stock in one variety or another becomes fully booked for future delivery, in which event, unless the client who has placed an order in advance is able to give us definite assurance that it is intended to take delivery, it would become necessary for us to offer the trees to other purchasers.

Varieties.

The varieties marked with an asterisk (*) are those that our firm have introduced to South Africa, and a reference to these will show to what a large extent the present position of the Fruit Trade within the Union—and also outside—is due to the enterprise of our firm during the 37 years of its existence.

Oranges.

Bitter Seville The well-known variety from which marmalade is made.

Clanwilliam Seedling A selected variety of the celebrated Clanwilliam Orange. Fruit large and sweet; ripens mid-season.

Jaffa Imported from Syria. Medium to late ripening. Thornless. Very heavy and full flavoured almost totally seedless. A heavy cropper.

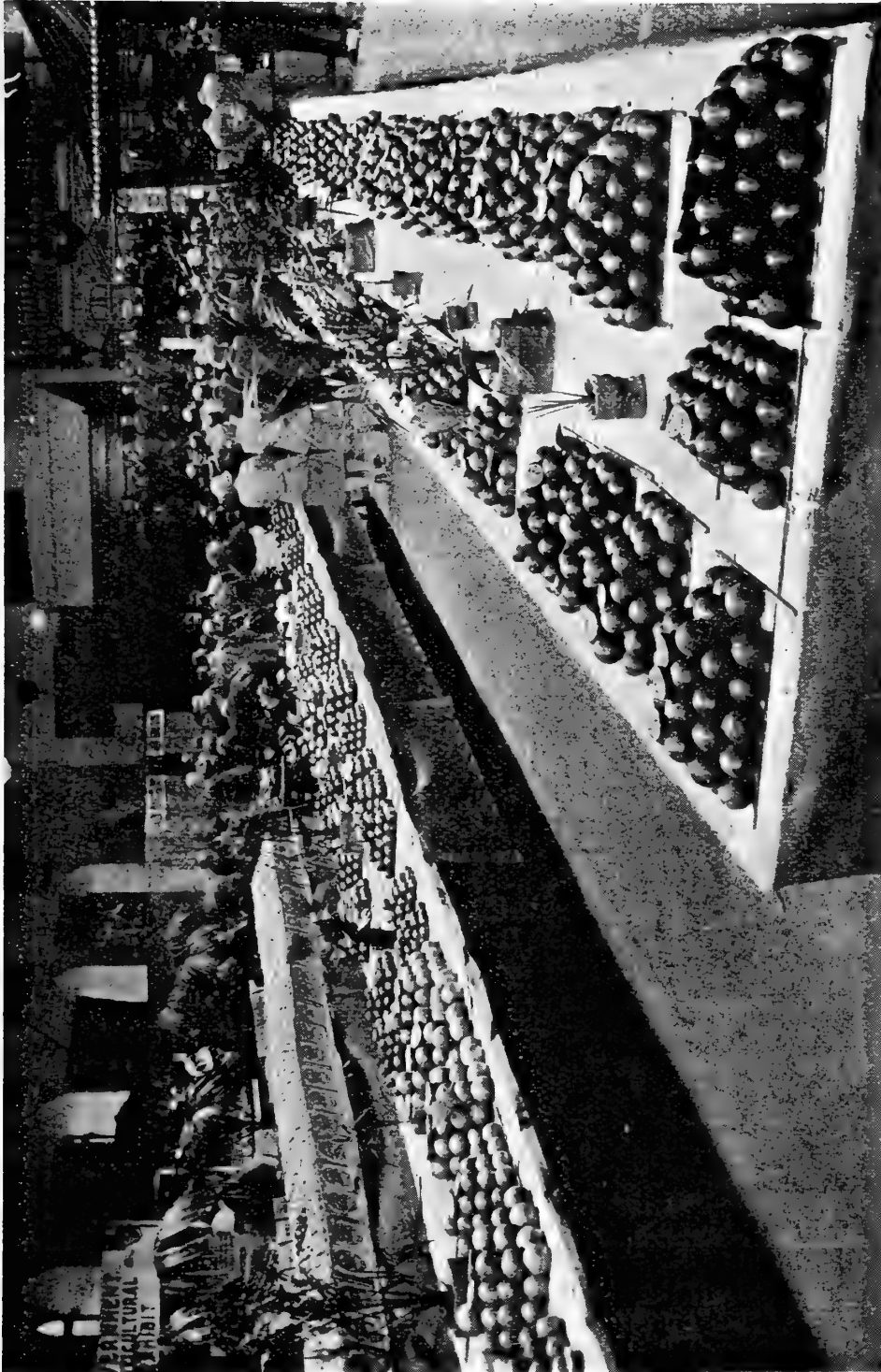
Joppa A Californian seedling grown from a seed received from Palestine. Fruit oblong, almost totally seedless, thin rind, very juicy and sweet; can hang long on the tree. Ripens between Washington Navel and Valencia Late.

***Mediterranean Sweet** Thornless, low, spreading tree, inclined to dwarf; very productive. Fruit oval, medium, inclined to be small; rich orange colour, inclining to thick skin. Flesh soft, juicy, and very sweet and luscious. Season middle to late. Follows Washington Navel. Shipping quality of the best.

***Navelencia** A variety that is commanding some attention from growers. It is said by the originator to be a cross between the Thompson's Improved Navel and the Valencia Late, for it is claimed for it the good qualities of the former together with the lateness in ripening which makes its season 30 to 60 days later in ripening than the Washington Navel, thus affording a market of its own between the marketing of the Washington Navel and the Valencia Late. Does not, however, here bear out this promising result. Tree of good robust growth, small thorns, full well-rounded top, hard glossy foliage, in character and habit closely allied to the two other Navels; fruit of good size, smooth and thin skinned, and comes into bearing second year from the bud. Suitable in some areas.

***Paper Rind St. Michael** Tree vigorous and of excellent habits; light thorns; heavy bearer. Fruit small, round, very solid and heavy. Skin thin; smooth and very fine texture; colour pale, almost lemon; membranes thin; grain fine; most abundant juice; sprightly excellent flavour. A general favourite; mid-season; shipping quality best.

***Pickstone's Washington Navel** Owing to the number of different sorts and qualities of Navels in South Africa, some of which, although true navels, were worthless as regards quality, and others very mediocre, our principal, in 1903, already then recognising the great



The opening of the Port Elizabeth Citrus Show.

future before our Citrus export industry, went specially to California with the object of securing the best possible strain of Navel. The resulting trees have now been bearing for many years, and the fruit has been exported over a series of years with remarkable success, while their bearing capacity has been thoroughly tested over the last ten years, with extremely satisfactory results. The Navels sold by us are guaranteed the result of this specially imported strain, to which we have attached our name as a guarantee of our confidence in its future. We carry fair stocks for forward delivery. Planters in all the Navel areas of the Union are unanimous as to the quality of this strain. It brings back the money into the planters' pockets, which is really the main thing that counts.

***Ruby Blood** This is the best of the Bloods, of medium size, nearly round ; skin thin, but very tough ; pulp melting, rich, juicy. As the fruit ripens it usually becomes streaked or mottled with blood red ; often the entire pulp gets ruby red, showing through the peel in a reddish blush on the outside. One of the best blood oranges. The tree is vigorous, nearly thornless and a regular bearer. Follows Washington Navel. Good for export.

***Thompson's Improved Navel** In character and habit closely allied to the Washington Navel. Fruit of medium size, smooth and thin-skinned, good flavour, and comes into bearing early. Its keeping qualities are equal to those of the Washington Navel. Its splendid appearance, fine texture of peel, superb colour and eating qualities render it an especial favourite among consumers. Shows no quality superior to Washington Navel in Africa, but is, however, a few days earlier. Is considered unsuitable in the Transvaal.

***Pickstone's Valencia Late** Tree of very fine and vigorous growth ; light thorns. Early in bearing and prolific. Fruit of medium size, oval, solid heavy. Light colour. Skin rather thin and of strong texture. Flesh of deep and very rich colour, grain fine, firm and crisp ; abundant juice ; excellent flavour, the quality that suits the hot months. Season latest, being prime after other varieties become stale, and maintaining fine quality through summer and autumn. Of best shipping quality, and reaches the market when there are no other oranges to compete.

NOTE.—Our special strain of Valencia is almost seedless, a most important factor in price getting.

Grape Fruit.

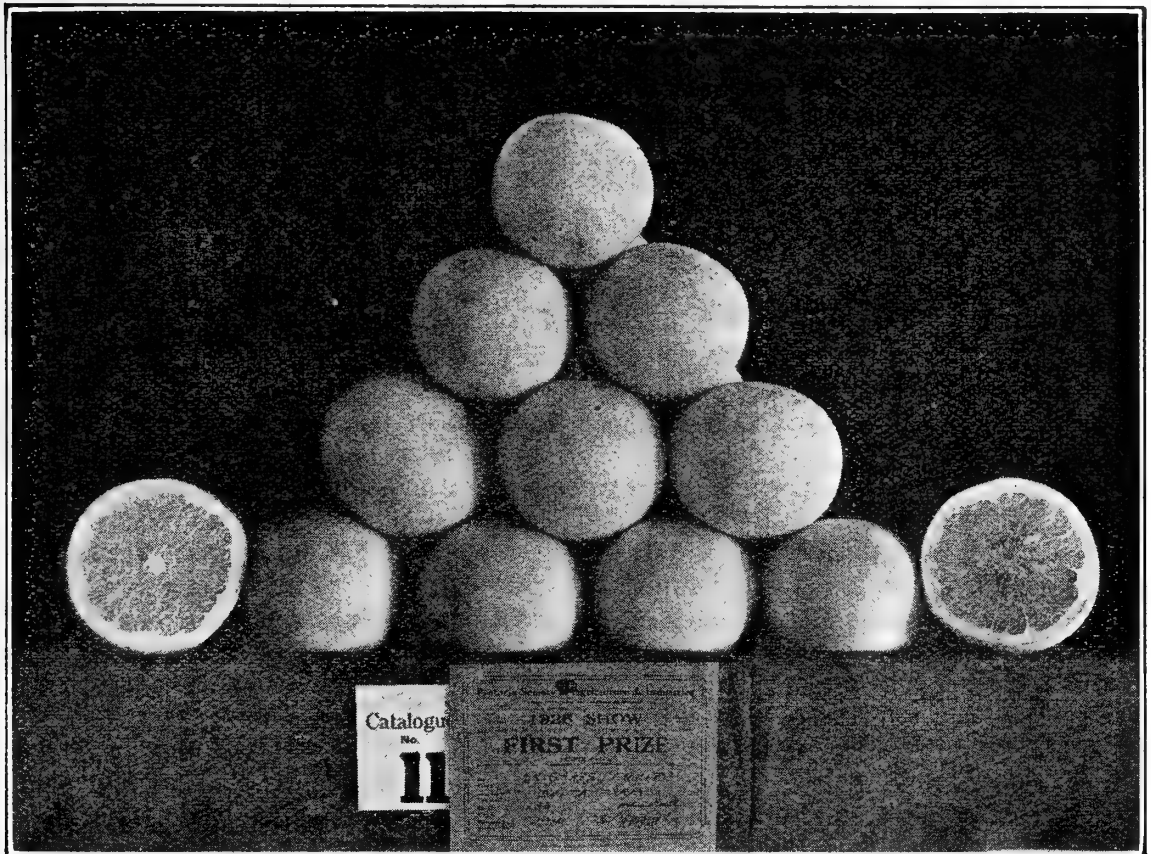
***Marsh's Seedless** Medium size. Thin rind, with about half the usual bitter. It is almost absolutely seedless. Sometimes you will find a fruit containing three or four shells of seeds, but as a rule it has none at all. With the absence of seeds the amount of juice increases, the flavour improves, and the fruit retains its noted qualities, and the pulp or meat is dark and rich. In serving this fruit you are not required to remove from 20 to 60 seeds, as is necessary with some other varieties of grape fruit, but it is ready for the table when cut in halves. The fruit is known to be a late keeper. The fact of its not having seeds that germinate when left late on the trees or in storage increases its keeping qualities to a great extent, and is another factor greatly in its favour. A three-year-old bud will bear all the fruit it should hold at that age.

Triumph A popular variety in the Transvaal, where it has been thoroughly tested out. It is of extremely good flavour but contains a number of seeds. It is for this reason we prefer Marsh's Seedless.

Lemons.

***Eureka** Tree nearly thornless, rapid of growth, and prolific bearer. Fruit of the best quality ; a general favourite.

Genoa Medium size, a long oval ; thin and smooth skin ; of good shape and appearance ; juicy, and of the very best quality. We consider, to have in every respect a first-class lemon, one need go no further than this variety ; grows freely in nearly all parts, and bears abundantly.



MARSH'S SEEDLESS GRAPE FRUIT.

We consistently recommend this variety for export as superior to all others, and at the Pretoria Show it always takes the first prize. It is, so far as we know, the only sort used for canning in the United States, thousands of tons being canned there each season.

Lisbon Same as Genoa.

***Villa Franca** A strong growing variety ; thornless, or nearly so ; fruit oblong, juicy and nearly seedless. Sweet rind.

Limes.

***Tahiti** This variety carries fruit nearly as large as the lemon. Very juicy, and of best quality.

FOR PRICES SEE PAGES 14 and 15.

Nartjes.

As compared with Lemons, Grape Fruit and Oranges, trees of the Nartje family give a more fragile growth in the early years of their existence.

Cape Nartje Can be in every way recommended commercially; a selected variety. The best for export.

Dancy's Tangerine Not so good as the Cape Nartje, but similar.

***Oonshu (Satsuma)** A garden variety. Less susceptible to frost than any other variety of citrus.

Citrons.

Citron of Commerce. This is the true variety from which an essential oil is obtained. The rind, when cured, is known as "citron rind" or "succade."

SITE FOR CITRUS ORCHARD.

In deciduous planting we often have reason to deplore the absence of data as to whether trees will grow or not. As in deciduous trees, where the seedling and coarser sort of grafted tree will thrive, it does not follow that the more delicate and more valuable fruit will always do well. We consider that in Citrus growing it can be **practically** recognised as a fact that when seedling oranges will grow and thrive improved varieties will also do so. We are therefore at once placed in the position of having data in citrus growing practically all over South Africa. This helps us considerably. In fact, we consider very good work has been done in orange-growing as regards sites. It has actually proved all through this Province, the Orange Free State and Transvaal, the best districts and the most favourable sites for planting. The opening up of the higher tableland for citrus planting would have been quite a problem without such data, as it has been demonstrated that it is only certain localities that are at all suitable owing to the prevalence of frost in the higher veld. One site may be perfectly free from frosts, whereas another, a few hundred yards away, is swept by frost or cold winds which would render the planting of citrus trees a fatal investment. It takes years to arrive at this knowledge, and it is the years of settlement, mainly by the Dutch, that has given us this valuable knowledge. Take Florida; every orange grower knows how the State has been devastated by occasional frosts, which have swept through wide stretches of the country, cutting down to the ground thousands and thousands of acres of bearing orchards. We take the Florida situation in this way. The old Portuguese settlements along the Coast had luxurious old orange groves, which as the State was developed, and as the transport of fruit to northern markets became a fact, were found to pay well. Thereupon land speculators and others boomed the country as an orange-growing country, and the boom took on. People rushed to the conclusion that because orange trees in old orchards thrived in certain districts, that large stretches of country were equally suited, consequently trees were planted out by thousands in districts that might not perhaps catch a frost in ten years. Therefore let us use the data which is before our eyes over this country and recognise that the limit of citrus culture is in no particular area of altitude or otherwise, but that right through the whole country, regardless of the general conditions prevailing in the district, there are sheltered spots eminently suited for our purpose, many of which have already been located for us.

Given a site where temperature is right, and also a water supply, the next point to consider is the character of the soil. There are no two opinions on this point. Citrus trees, to grow healthy and live long (in other words to pay well), must be planted in **well-drained soil**. Personally, we infinitely prefer a soil naturally well drained; in fact, a naturally dry soil, which is of such a character that it readily accepts water into its depth. Of such class of soils there are hundreds of thousands of acres in South Africa, provided the necessary water could be brought into them in sufficient quantity for practical purposes. We should always avoid sites which are naturally moist and wet as the trees will never give satisfaction in such a location. We remember a noteworthy case in point. The late Mr. Rhodes, some 36 years ago, despatched a consignment of orange trees to Rhodesia to be distributed for planting; a couple of hundred were planted on his own farm in the Matoppos, the only water supply there at that time being a windmill pump, delivering the water into tubs. The well had as usual been sunk in the part of the farm which showed indication of being the wettest, and the trees were planted in a couple of acres of land adjoining the well, so that they would be handy for watering by means of barrels, which were, we believe, placed on a sledge for this purpose, the idea, of course, being that by placing them near the water they would be less likely to suffer, consequently they were standing in soil where we feel certain they could not do themselves or anybody else credit. Here is the point in planting citrus orchards: **Don't take your trees to the water, but lead your water to the trees.**

The site secured, which should be a sheltered one, little affected by frost, the next vital consideration is water; we think that in only very few favoured spots in South Africa can citrus growing be made profitable without water. We would ourselves hesitate to recommend the planting of such an orchard without having a water supply behind it proportionate to the number of trees to be irrigated.

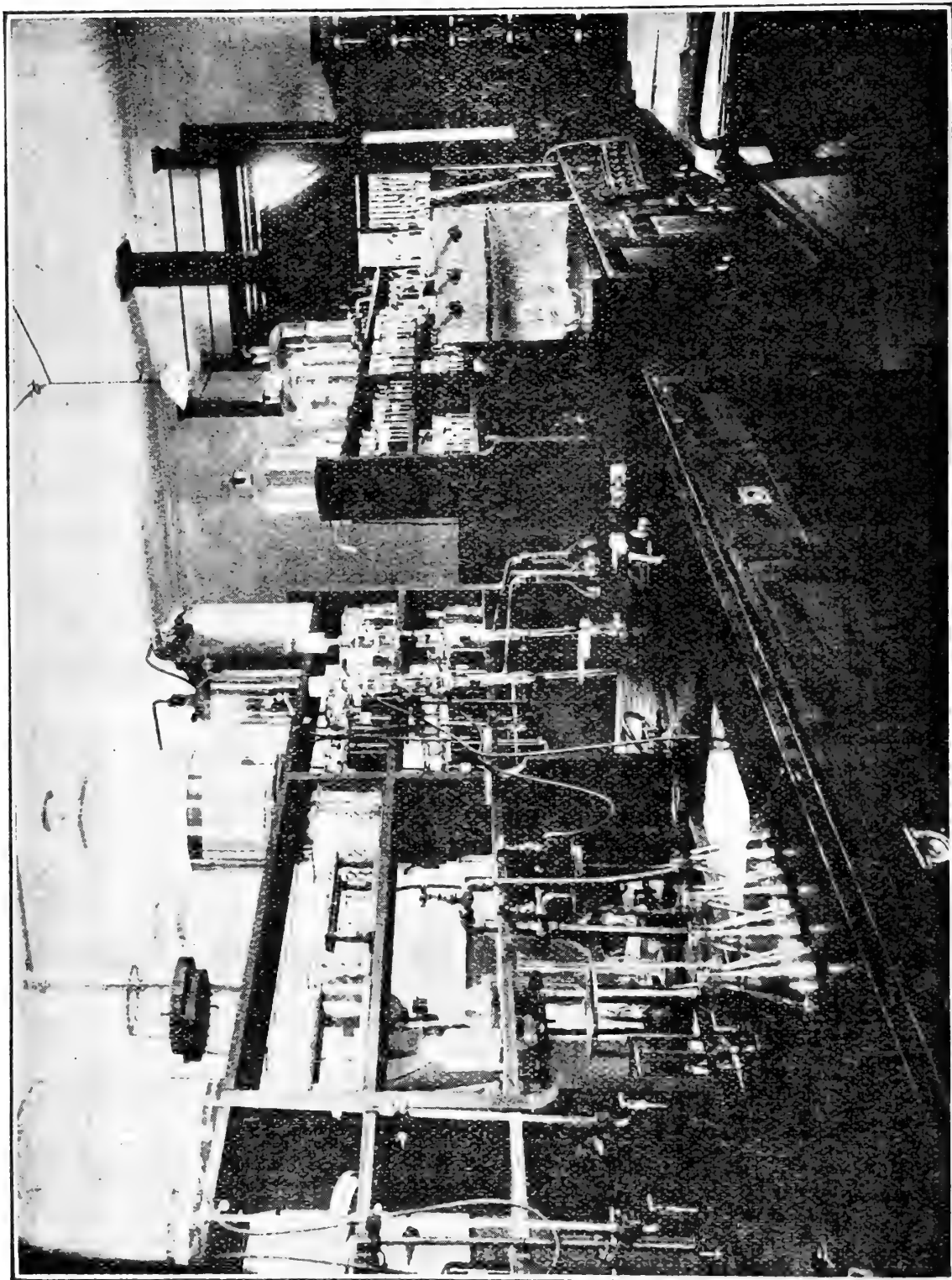
Setting out an Orange Grove

There has been a little difference of opinion as to whether it is best to plant trees direct from tins or with bare roots. We have satisfied ourselves that if well dug and every detail of the packing is carefully done, Citrus trees packed with bare roots can be safely transported any distance throughout Africa with only a very small loss on being planted out. But growers must remember that a plant in foliage at the time of planting needs much more careful attention, as although the tree may be quite dormant at planting there must necessarily be a good deal of evaporation through the leaves, and this evaporation must be met by keeping the soil around the tree moist.

At once after planting we recommend the trees should receive water and that the surface of the soil around each tree should be mulched with hay, straw, grass or bushes, or indeed anything which will retain the moisture. It is almost essential to protect the tree from the direct rays of the sun, either by reeds, stakes, bagging, or indeed anything which will serve the purpose. The defoliation of the young trees to prevent evaporation is not always desirable, as the benefits derived from it are sometimes counteracted by the danger of having the tree scorched by the winds, which are very prevalent throughout the country, and, therefore, particular care must be taken to have them well protected.

Don't Plant Too Deep

It is a mistake which is very generally made throughout the country, and is of vital importance. In Florida, where the soil is shallow, and the climatic conditions are equable, trees are often planted on the top of the ground, and the soil thrown up against them;



One of the rooms, Low Temperature Research Laboratory, Cape Town, where transport problems, etc., are investigated.

FOR PRICES SEE PAGES 14 and 15.

we do not, of course, advocate this, but we do say keep the place where the bud is inserted well above the ground, letting the crown of the roots be covered a few inches only. Many growers have told us that it is impossible to keep trees clean from scale if they have been set too deep; we confirm this from our personal experience, and we do know that in Florida it is generally recognised to be a fact, and it must be borne in mind that Florida is a State of **shallow soils**, and in many instances we believe badly drained, whereas California is a country of deep soils. We feel satisfied that in shallow soils deep planting will certainly bring an orchard into an unsatisfactory state sooner or later, while in deep soil it is still quite an important matter to keep the trees well up in planting.

Never manure your trees when setting them; it is a dangerous thing to do; wait until your trees are well established in a few months, then the manure can safely be applied and will be readily and promptly brought into solution by the irrigation water, which should be immediately applied. The tree should then very shortly respond.

The Washington Navel and its Future

Our firm have for thirty years consistently advocated the placing in the premier place in South African citrus groves the Washington Navel orange, and we maintain this position in spite of anything that has been and may be said to the contrary. It is the King of oranges during its entire season.

We state boldly that covering the long future the Navel orange, during its season, will be our most important factor in establishing a permanent place for South African oranges in the European market, and we contend that over a large and diverse area in Africa Navels of the highest quality are grown. We admit, however, that many hundreds of thousands of rubbishy trees of poor strains of Navels have been planted—and very often badly planted—in fact, so badly planted and cared for that even a good strain would have a poor chance of coming up to a respectable standard.

We are told we must look to seedlings as the basis for the real expansion of the citrus export, to bring the fruit to such a price as can be readily eaten by the poor man, and Spain is instanced as a country from which we have much to learn in regard to stocks and the varieties suitable for the European markets. Our principal some few years ago returned from a second visit to the orange groves of Spain to look into cultural matters on the spot, and has seen many millions of trees in the Vuelta of Valencia—the home of the Spanish oranges. He made a previous visit there twenty-two years ago for the same purpose. The Spanish orange industry to-day is based on selected seedlings all worked on sour stock. The trees are good, bad and indifferent, according to soil and conditions, and the fruit itself follows suit. Extraordinary care is, however, taken on the pack, which retrieves the whole position and has resulted in the high repute of these oranges.

One hears much talk of sour stock to-day and its immunity from disease. We state definitely that in Spain at all events Mal di Goma and foot rot are broadcast in their prevalence. To such an extent is this so that in the Murcia and Denia areas it is orchard practice to open up each tree, exposing all roots, and keep them open year in and year out. In a word, half the orange trees of Spain, all of which are on sour stock, are actually suffering from or threatened with foot rot. We are told that these trees are regular and consistent croppers. This is not true. The crops vary as in other countries. As an instance, 1922 crop of certain groves of high repute in South Valencia area was one-third of 1921. Over and above all this, the average height of a thirty year old orange tree in Spain is 8 ft. to 10 ft. high. They are all dwarfed and planting is seldom made at a greater distance than 10ft. to 12ft. apart.



Fruit trolleys being transported from the pre-cooling plant to the ship. Notice canvas covers to protect fruit from gain in temperature.

FOR PRICES SEE PAGES 14 and 15.

The Spaniards themselves are fully alive to the value of the Navel orange. and repeated experiments have been made to establish it, without any success. As a practical grower we realise that first quality Navel oranges could be grown in Spain provided the right stocks and conditions are used. The value of the establishment of the Navel orange in Spain can be realised when we state that in the height of the Spanish seedling orange, season (1922) we saw Californian Washington Navels exposed for sale in all the best English fruit shops at figures one-third in excess of the pick of the Spanish seedlings.

In confirmation of the statement made four years ago, we read in the weekly report of the Overseas Representative of the Fruitgrowers' Exchange in London, under date 23rd December, 1925: "A few boxes of Spanish grown California seedless oranges, packed in standard California boxes, were on the market this week, and made from 30/- to 35/-. counts 96's. to 132's., whereas at like date the current price of Spanish seedlings, counts 300's. to 504's. was 12/- to 20/-."

We do not contend that Washington Navel oranges will deliver high class fruit from badly selected, badly planted, and indifferently grown groves, and planted in unsuitable areas. This orange demands a high understanding and great intelligence to secure perfection, but we contend there is sufficient of these qualities among growers to secure same, and we repeat that on the Washington Navel in its season depends the standard on which our citrus reputation will always rest, and that its carrying qualities per acre space will compare favourably with any other variety planted, averaging over the years, if properly cared for.

We, however, wish to point out that we have a good stock of other varieties outside of Navels, and we specially recommend increased plantings of Mediterranean Sweet, Jaffa and Joppa, as ripening between Washington Navels and Valencia Lates.

We have given here our honest advice covering 40 years, founded on cultural facts and a wide knowledge of European markets and continental orchard practice. Each will, of course, plant as he pleases.

Stocks This is an important point on which we receive frequent inquiries.

Many appear to be in a state of uncertainty as to what stock is best for the orange. As stated in our "Hints on Fruit Growing," we have tested nearly all the various stocks which have from time to time been recommended, and though we continue to carry a small stock of trees worked on to these different roots, the stock we have adopted for general use is the Rough Lemon, and this we hope to continue to use until something which proves definitely better is brought to light. Our reasons for using the Rough Lemon in preference to others are that it is robust and healthy, it is the only stock which has lived and thrived in this country for centuries under all sorts of adverse conditions, and in fact it is said by some to be indigenous to parts of South Africa. Nearly every variety has proved successful upon this stock.

The Bitter Seville, though a suitable stock for the Lemon, has proved perfectly useless for nearly every variety of orange. The Sweet Orange stock seems very subject to root disease, and as regards the Pomelo, we have had a large plantation of various kinds of Oranges worked on the Californian Pomelo under observation for years, and we find it has an undoubted tendency towards dwarfing the tree, as does also the Trifoliata, but to a much greater degree.

We have seen it stated that any sour stock, such as the Rough Lemon, has a deleterious effect upon the fruit, causing it to be sour, thick pulped, etc. Results, however, have proved that this is a fallacy. The stock has no direct influence whatever upon the fruit, though it influences the growth and habit of the tree; a dwarfed stock, for instance, making a dwarfed tree, and a free growing stock having the opposite effect.

We have proofs without number that fruit is not influenced by the stock, and do not know of any instance where the effect is contrary. Amongst well-known instances may be mentioned the pear upon quince, the apple upon crab, or the grape worked on to wild American root. In each of these cases the fruit of the stock is very sour and bitter, yet the fruit produced by the scion is identically the same as if it were grown on its own root. When fruit of the grafted Citrus tree varies, as it sometimes does, it is on account of difference of situation and soil, or cross fertilisation, and has nothing whatever to do with the stock.

It should be noted that the fruit of the Citrus family does not always attain perfection the first year of bearing. The first fruits are inclined to be thick pulped and are sometimes deformed. It is often not until the second or even third crop that the fruit is seen at its best.

VALUABLE TABLES.

Number of trees on an acre at various distances :—

10 feet x 10 feet	..	..	..	..	435
11 feet x 11 feet	..	..	..	..	360
12 feet x 12 feet	..	..	..	..	302
13 feet x 13 feet	..	..	..	..	257
14 feet x 14 feet	..	..	..	..	222
15 feet x 15 feet	..	..	..	..	193
16 feet x 16 feet	..	..	..	..	170
17 feet x 17 feet	..	..	..	..	150
18 feet x 18 feet	..	..	..	..	134
19 feet x 19 feet	..	..	..	..	120
20 feet x 20 feet	..	..	..	..	108
21 feet x 21 feet	..	..	..	..	98
22 feet x 22 feet	..	..	..	..	94
23 feet x 23 feet	..	..	..	..	82
24 feet x 24 feet	..	..	..	..	75
25 feet x 25 feet	..	..	..	..	69
30 feet x 30 feet	..	..	..	..	48

To ascertain the number of trees or plants required for an acre : Multiply together the distance that the trees are to be set apart each way and divide this into 43,560 (the number of square feet to an acre), which will give the number required.

Distances for Planting.

For orchard planting, all varieties in Catalogue, 20 feet apart each way, with the following exceptions :—

Quinces — — — — 10 feet apart.

Vines — — — — 5 feet apart.

In gardens this can be varied to suit size and conditions.

CROWN GALL.

Ex. PACIFIC RURAL PRESS (1929.) (The Leading Fruit Paper in California.)

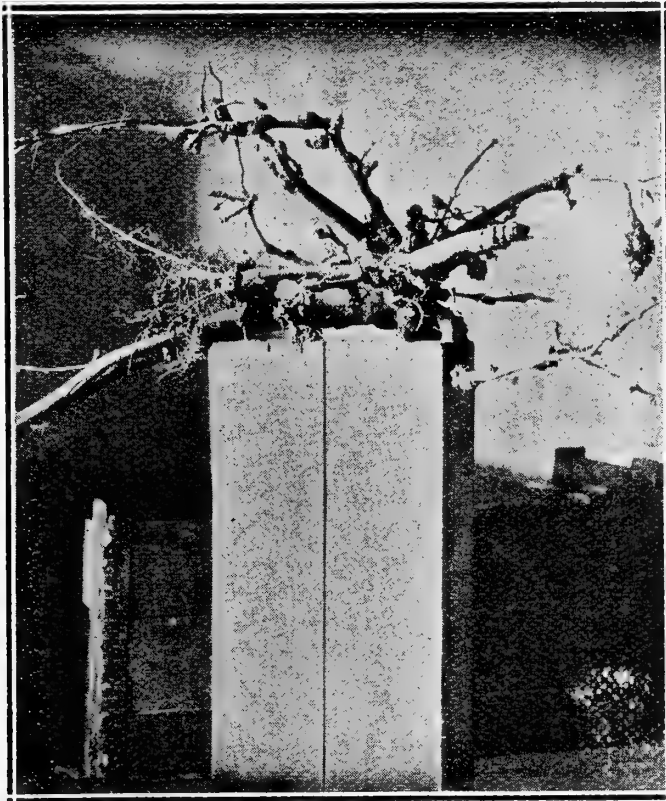
Crown Gall isn't Easily Dodged.

To the Editor:

After trees, badly infected with Crown Gall, have been pulled, how many years should elapse before the soil is safe for re-planting ?

Reply by Editor:

For practical purposes, none of our soils are safe for planting, if it is freedom from Crown Gall you want. In other words, it will not be worth your while to attempt to "starve out" this disease. Go ahead with your re-planting as soon as convenient. We have seen heavy infections on so-called virgin soil that never had a domestic tree on it. Apparently the organism is in nearly all our soils, and there is no assurance of getting rid of it. So plant young trees, examine them occasionally during the first five or six years and trim off any galls that develop round the collars. About all one can do is to see that nursery stock is free of visible signs of infection, and then trust to luck and periodical inspection.



A KEURBOOM ROOT, delved from virgin soil, heavily infected with root knot and eelworm swellings. This is an illustration of a fact that is not generally recognised, that these troubles are native of the veld vegetation of South Africa.

**This is a world's trouble, and it should
be so recognised by all planters.**

FOR PRICES SEE PAGES 14 and 15.

Time of Bearing.

Apples may be expected to come into bearing the 3rd year to 6th year, dependent upon variety.

Pears may be expected to come into bearing the 5th to 8th year, dependent upon variety.

Peaches may be expected to come into bearing the 3rd year.

Apricots may be expected to come into bearing the 4th year.

Plums (Japanese) may be expected to come into bearing the 3rd year, dependent upon variety.

Plums (Domestic) may be expected to come into bearing the 5th year, dependent upon variety.

Cherries may be expected to come into bearing the 5th year, dependent upon variety.

Almonds may be expected to come into bearing the 3rd year.

Walnuts may be expected to come into bearing the 6th year.

Quinces may be expected to come into bearing the 3rd year.

Figs may be expected to come into bearing the 2nd year.

Vines may be expected to come into bearing the 2nd year.

Citrus trees may be expected to come into bearing the 3rd year.

TESTIMONIALS.

SEASON 1929.

BANDOLIERKOP (Transvaal).—"We bought some fruit trees from you about five years ago, and in spite of the most adverse conditions (three years of drought, etc.), they have mostly survived and are doing well."

ISLAND OF MADEIRA.—"Trees arrived in beautiful condition and were at once planted as by your instructions."

LOUIS TRICHARDT (Transvaal).—"I must thank you for the trees. They arrived here in good order and I am very pleased with those I have just planted. It looks as if they will all grow."

GROOTFONTEIN NORD (S.W.A.).—"The orange, naartje, plum, cherry, quince trees and vines received in July of this year are all up to now flourishing beautifully."

DOUGLAS (Cape).—"I herewith beg to acknowledge with thanks receipt of trees in good order. I hope to give you a larger order next year. The trees are all growing; I haven't lost one."

BARKLY WEST (Cape).—"The 500 trees that I planted are doing well, in spite of a very severe drought this season,"

JOHANNESBURG (Transvaal).—"The trees arrived in good condition, for which many thanks, and out of the 200 there are only seven which have not actually put forth shoots, and as it is still early in the season I have every hope for those too, as they seem quite all right."

KOKSTAD (Cape).—"I have pleasure in advising you that the trees arrived in excellent order, having been well packed."

RICHMOND (Cape).—"The trees I received from you in July arrived here in good condition. I planted them and cut them down to 22 ins. above ground, as you advised, and they are growing beautifully. I am very pleased with the trees, and later on when they are bearing I will let you know how they have done."

OKAHANDJA (S.W.A.).—"I beg to give you voluntary testimony that the trees arrived here in the best condition, packed most efficiently, so that I recommend your firm in every way in these parts. Citrus trees and vines have been growing well."

ANGOLA (P.W.A.).—"The trees were not planted for more than a month after they had been packed at your nursery. I was delayed some time at the coast. When I did reach home the holes had not yet been dug and so they had to wait still longer. In spite of the delay they started to grow immediately after they were planted. I think that all of them have shown signs of growth by this time. I am very glad that I have had the opportunity of getting these trees from you."

DREW (Cape).—"The 400 Navels arrived in excellent condition."

ALI WAL NORTH (Cape).—"I planted 144 of your fruit trees in 1923 and they have all done very well, and I am quite pleased with same. I therefore wish to get my trees from no one else than from Pickstone Bros."

SCHAPENRUST (Transvaal).—"I am very pleased with the 800 trees I received from you, and I hope to order a further 300 next July."

WINTON (Cape).—"The consignment of trees arrived on the farm last Friday in very good condition and I am more than pleased with them. They all look quite healthy and I have great hopes that they will do well."

LADYSMITH (Natal).—"I beg to acknowledge with thanks receipt of the consignment of almond trees, etc., which arrived in due time and opened up in very fine condition."

REITZ (O.F.S.).—"Trees reached me in first class condition, and I can assure you that they are to my entire satisfaction."

SALISBURY (Rhodesia).—"We are pleased to say many of the trees are in leaf and we believe the remainder will be very shortly; at least they look full of life."

WOLVENSPRUIT (O.F.S.).—"I am very pleased with the trees and hope to order more later."

MALANGALI (Tanganyika).—"I beg to acknowledge receipt of the fruit trees for myself and friends. The trees were in good condition."

BLOEMFONTEIN (O.F.S.).—"The trees we had from you last year arrived in tip-top condition and are doing very well."

WHITTLESEA (Cape).—"The trees arrived safely and in a healthy condition after having been eight days on the way."

JOHANNESBURG (Transvaal).—"Thank you for prompt delivery and the efficient manner of packing, which enabled me to receive trees in a good and fresh condition."

JOHANNESBURG (Transvaal).—"I have received trees in good condition and am very pleased with them. So far they are improving and I have every hope of them all taking root (450 trees)."

NAIROBI (Kenya).—"I should like to say how pleased I am with the trees supplied by you last season."

GERMISTON (Transvaal).—"I would like to acknowledge having received in good condition the fruit trees which arrived last Saturday, and I am perfectly satisfied with them."

PLATRAN (Transvaal).—"The trees I purchased from you last season arrived in excellent condition. Owing to unusual drought prevailing at the time of planting these were kept for a period of a little over 7 weeks without any appreciable harm occurring. When planted they took remarkably well, in fact out of 150 planted only two fig trees failed. They have all put on wonderful growth and look quite healthy thus far."

LUSHOTO (Tanganyika).—"I have already obtained a parcel of trees from you in 1910 and they have grown well. The enclosed photo will show you some of the fruit (Keiffer pears) obtained from your trees. Each fruit weighs more than a pound."

DAVEL (Transvaal).—"I ordered 200 apple trees from you in 1924. They are doing very well."

BLOEMFONTEIN (O.F.S.).—"I have received your trees and am very pleased with same. It looks as if they will all grow. I have been very pleased with the trees you supplied me with two years ago."

KRUGERSDORP (Transvaal).—"A few years ago I got a lot of deciduous trees from you; they are doing well on my farm, and I am going to get ready for a large number next year."

POTCHEFSTROOM (Transvaal).—"I have great pleasure in handing you my cheque for the consignment of trees and grape vines you sent me. It is the finest large order of trees that I have handled from any nurseryman in the Union. I can recommend same to any intending purchasers."

DEWETSDORP (O.F.S.).—"You selected some for me before and I was very pleased with the trees you sent me. They bear delicious fruit."

PARYS (O.F.S.).—"I herewith beg to advise you that I received the trees in good order. They were still nice and fresh and I am quite satisfied with same. I hope to order again from you next year."

RANDFONTEIN (Transvaal).—"I have to-day received the trees in good condition and wish to thank you for the prompt manner in which you attended to my small order. The gentleman who recommended your trees to me is delighted with everything he has had from you, and is not afraid to tell people about it either."

WITBANK (Transvaal).—"The 100 trees I got from you last year are doing well."

ROUXVILLE (O.F.S.).—"I must inform you that the trees arrived here in splendid condition and it will be no fault of yours if they do not grow."

POTFONTEIN (Cape).—"I may state that the trees you sold me are healthy and strong, and thus far everyone of them is growing."

PORT ELIZABETH (Cape).—"The trees and vines arrived to-day looking quite fresh and not a twig broken, thanks to your efficient packing."

TIMBOROA (Kenya).—"I received the fruit trees from you last month; they were in very good condition and since being planted in the orchard are making wonderful progress."

FLORIDA (Transvaal).—"The trees arrived safely and in good order. Last year my trees were laden with fruit—the plums were almost hanging on the ground. The trees really bore too many, especially Burbank. I've two acres planted with only your trees, and never wish to plant any others but yours."

BLOEMFONTEIN (O.F.S.).—"I have great pleasure in advising you that the trees I ordered from you arrived in good condition. I am very pleased with them; they are quite a decent size and I hope they will all grow well."

WYNBERG (Cape).—"Many thanks for prompt despatch of the fruit trees as ordered. They were in perfect condition, and although the order was small you have undoubtedly given it your best attention, for it is evident the trees have been carefully selected."

LADYSMITH (Natal).—"You will be pleased to hear that every one of the trees I got from you have shot and are doing splendidly. We have certainly had an ideal season for trees, but, even so, your trees arrived in splendid condition and were as fresh when I took them out as when you packed them."

MBABANE (Swaziland).—"Trees unpacked and planted in excellent condition. The few trees you supplied to me earlier were, and are, very satisfactory."

BURGHERSDORP (Cape).—"The trees came to hand in a very good condition and are doing very well."

DELMAS (Transvaal).—"The trees I ordered from you some years ago are doing splendidly."

BEAUFORT WEST (Cape).—"I find most of the trees have already started. This is surprising as I could not get them from the station till fourteen days after arrival. That is the trouble of being so far out."

BLANTYRE (Nyasaland).—"I must tell you that I am very satisfied with the fruit trees you sent me."

MAZABUKA (N. Rhodesia).—"The orange trees arrived in good order and condition."

MLANJE (Nyasaland).—"The plants arrived in excellent condition."

IRUMU (Congo Belge).—"The consignment of trees sent last year mostly are doing well."

KOKSTAD (E.G.).—"The five trees I planted a month ago are sprouting splendidly, and indeed the few trees I have had during the past six or seven years have all done well."

CALVINIA (Cape).—"Trees reached me safely and in good order. I am entirely satisfied with the trees and do appreciate the prompt execution of my order."

KAFFIR RIVER (O.F.S.).—"I started an orchard twenty years ago with trees I got from you and they have done splendidly."

ADELAIDE (Cape).—"The trees which you supplied to me in 1925 are bearing this season, and the fruit is excellent. I hope to export about 500 cases next season."

BREMERSDORP (Swaziland).—"The 500 Marsh's Seedless Grape Fruit have arrived and I am very pleased with them. Their packing was perfect."

MILTON (Cape).—"For your information, my Navel trees which came from your nurseries and which are now in their seventh year, are giving me just about two cases per tree."

PETRUSBURG (O.F.S.).—"Some thirty years ago I planted 100 trees supplied by you. In this case the trees were delayed in transit, so were only planted a full month after being consigned, but all of them grew and developed into splendid trees."

ADD0 (Cape).—"Enclosed please find a small order for citrus trees. Those I got from you are all doing well, Out of the last lot I was successful in not losing one, which commends your packing."

BENONI (Transvaal).—"Could you send me three trees to replace three which have been eaten by white ants out of the 128 purchased from you in 1925. All have done splendidly, and any further trees I require—next year, I hope—you shall have the order."

KOOSFONTEIN (Transvaal).—"The trees reached me in very good condition and they are to my entire satisfaction, and there is no doubt that I will get 100 per cent. to grow."

BURGHERSDORP.—"I hope these trees will be as good as the previous small lots I have had from you, all of which arrived in splendid condition and grew most valiantly."

MOUNT FRERE (Cape).—"The trees arrived as green as if they were dug out yesterday."

HOWICK (Natal).—"The trees arrived in splendid condition and are beautiful trees. I am very pleased with them."

ANGOLA (P.W.A.).—"I might say that the last citrus trees you sent me arrived here in good condition."

QUEENSTOWN (Cape Province).—"I am pleased to say that the trees arrived in good order, and I am also pleased to report that out of the first batch of citrus trees I bought from you, although planted during the big drought, so far I find only three have failed, which, I think, is really splendid. All the others are shooting nicely."

ZOMBA (Nyasaland).—You will be pleased to know that all the trees we bought from you a few months ago have taken well, with only one exception."

DOUGLAS (Cape Province).—" I am writing to inform you that I have received the trees in good condition and that I am perfectly satisfied with them."

RIVERTON (Cape Province).—I feel it my duty to let you know that the trees (500) arrived here in splendid condition, and that I am more than satisfied with them."

OUDTSHOORN (Cape Province).—" I can assure you that I am more than satisfied with the citrus trees (2,250) that you have sent me. They arrived in excellent condition. The trees are one and all very fine, and I am advising all my friends to order from you."

ZALOBASIDING (S. Rhodesia).—" I have to thank you for the remaining trees, which arrived safely. Some of those planted are already beginning to grow and they all look a fine lot of trees."

SWELLENDAM (Cape Province).—" I just want to draw your attention. I do not know whether you can remember the trees I got from you the year before last. I wish you could just see them—they are a marvel to everybody and really a treat to look at. I had several nurserymen inspecting them, for they are an exceptional size for their age. I don't know whether you read the account of our last year's show. Out of 38 exhibits I took 25 first prizes, mostly citrus from your trees, and I am very proud, for they are of your strain."

ZASTRON (O.F.S.).—" I received a consignment of fruit trees from you last year, and have pleasure in informing you that they are all growing well, and I am well satisfied with them."

PHILIPPOLIS (O.F.S.).—" It gives me great pleasure to order trees from you again, for when I look at my orchard planted with trees I bought from you five years ago I feel proud."

SCHWEIZER RENEKE (Transvaal).—The trees I got from you two years ago are growing very fine. I hope those you are sending now will do the same."

NORLIM (Cape Province).—The fruit trees arrived quite safely and I could not help feeling delighted with their appearance—they look so healthy."

FRASERBURG ROAD (Cape Province).—" I received the orange trees in good order. I must say that it is a pleasure to see the first lot I had."

GEORGE (Cape Province).—" I am highly pleased with the consignment of peach trees I got from you last year. They are doing wonderfully well here."

PORT LOUIS (Mauritius).—" I am glad to say I have not lost a single tree last year, as well as this year, of those ordered from you through my friend."

MARSALA (O.F.S.).—" I am highly satisfied with the trees; they were all in splendid condition. My friends are taken with your trees."

SILVERKRANS (Transvaal).—" Many thanks for the consignment of trees received from you. Although it took the trees about a week to get here they arrived in excellent condition. I must say your method of packing is excellent."

CLAREMONT (Cape).—"Enclosed please find postal order for the amount of your account for trees which, as usual, arrived in excellent condition. You have supplied me with fruit trees for the last ten years; every tree has lived and has proved true to description—in striking contrast to trees which I have foolishly obtained from other sources. I congratulate you upon your business methods which ensure such complete satisfaction to your clients."

KITALE (Kenya Colony).—"The fruit trees arrived in perfect condition and have been planted out in accordance with your instructions."

MATATIELE (Cape Province).—"The trees I got from you are all doing very well and I am very pleased with them."

LIKASI (Congo Belge).—"I take the opportunity to thank you for the attention you had on sending my trees on the 21st June, 1929, which arrived in good condition."

PHILIPPOLIS (O.F.S.).—"The trees and vines arrived in excellent condition and I wish to thank you for your prompt attention."

XINAVANE (P.E.A.).—"I am pleased to say that the fruit trees and vines recently received from you are all doing splendidly."

SERGOIT (Kenya Colony).—"I beg to acknowledge the safe arrival of the fruit trees ordered in June last. They have all been planted out as per your instructions and are growing remarkably well."

RETREAT (Cape).—"I received the 300 pear trees and am enclosing cheque for same. Your packing is 100 per cent; your trees everyone of them 100 per cent. and that is saying a lot."

RANDFONTEIN (Transvaal).—"The trees I got from you last year and the year before have grown splendidly and, what is much more important, have shown no signs of any disease and are in a wonderfully healthy condition. I have recommended you to my friends."

KROONSTAD (O.F.S.).—"I again have the honour to inform you that the trees I had from you from year to year have always done exceedingly well."

SPRINGBOK (Namaqualand).—"I received the trees yesterday in good condition and I am very pleased with same."

PILGRIMS REST (Transvaal).—"The trees I had from you last, *i.e.* in 1927, have all done very well."

CHRISTIANA (Transvaal).—"I am highly satisfied with the quality of your trees and by following your instructions in regard to planting they all grew and are looking fine. I will advertise your trees in this vicinity."

ERICKSWILL (O.F.S.).—"The orange trees arrived here in good order and are all growing nicely."

JOHANNESBURG.—"We have well recommended your trees, as we have been so successful with them. We want to plant another 400 next season."

MONTEVILLE (Cape).—"I was highly satisfied with my trees and will probably have another order for next season."

BURGHERSDORP (Cape Province).—"The trees planted this season are all growing well and several of them have fruit on."

